Data Completeness and Quarterly Averages of Fine Particulate Material in Michigan

Guideline on Data Handling Conventions for the PM NAAQS, p 4 "If you're doing an intermediate calculation, such as quarterly average PM10 value from the 24-hour values, keep all digits on your calculator."

updated 8/17/09

shaded cell indicates sampling frequency changed to 1:6

shaded cell indicates sampling frequency changed to 1:3 from 1:1

red'n in samplling frequency from 1:6 to 1:12

sampling frequeny increased to daily - +/- 5% NAAQS

				First Quarter				Second Quarter				Third Quarter				Fourth Quarter					
AIRSID	Site	POC		Sch #	Obs. #	%	Quart.	*Sch #*	Obs. #	%	Quart.	Sch #	Obs. #	%	Quart.	Sch #	Obs. #	%	Quart.	Annual	3-Yr Annual
260050003	Holland	1	1999	75	69	92	11.48	91	76	84	13.62	92	91	99	12.52	92	90	98	10.99	12.15	
260050003	Holland	1	2000	91	91	100	13.35	91	86	95	10.54	92	87	95	12.11	92	84	91	10.91	11.73	
260050003	Holland	1	2001	90	89	99	13.85	91	91	100	12.82	92	90	98	14.22	92	91	99	10.04	12.73	12.2
260050003	Holland	1	2002	90	89	99	11.38	91	91	100	12.35	92	91	99	**15.40**	92	90	98	10.63	12.44	12.3
260050003	Holland	1	2003	90	82	91	13.84	91	89	98	12.07	92	89	97	13.21	92	89	97	10.50	12.41	12.5
260050003	Holland	1	2004	90	86	96	13.09	91	84	92	9.69	92	89	97	12.09	92	91	99	9.97	11.21	12.0
260050003	Holland	1	2005	90	87	97	13.70	91	91	100	11.64	92	92	100	13.85	92	91	99	10.35	12.39	12.0
260050003	Holland	1	2006	90	87	97	11.77	15	14	93	10.04	15	15	100	10.09	16	16	100	14.01	11.48	11.7
260050003	Holland	1	2007	30	28	93	11.15	30	28	93	11.39	31	25	81	12.43	30	30	100	11.79	11.69	11.9
260050003	Holland	1	2008	31	28	90	10.15	30	29	97	9.06	31	28	90	11.33	30	30	100	8.17	9.68	10.9
260050003	Holland	1	2009	30	29	97	11.88	31	29	94	6.67	30		0		31		0			
260170014	Bay City	1	2000	---	---	---	---	---	---	---	---	13	13	100	10.03	30	26	87	10.16	10.10	
260170014	Bay City	1	2001	30	28	93	13.00	31	30	97	11.84	30	30	100	10.83	31	31	100	10.47	11.53	
260170014	Bay City	1	2002	30	26	87	11.51	30	27	90	10.82	31	28	90	11.94	31	24	77	10.71	11.25	11.0
260170014	Bay City	1	2003	30	26	87	12.58	30	27	90	9.07	31	30	97	11.78	30	29	97	10.43	10.97	11.2
260170014	Bay City	1	2004	31	30	97	11.44	30	30	100	9.39	31	30	97	10.57	30	30	100	8.00	9.85	10.7
260170014	Bay City	1	2005	30	30	100	13.79	31	28	90	12.63	30	29	97	13.29	31	30	97	10.05	12.44	11.1
260170014	Bay City	1	2006	30	29	97	11.61	15	13	87	8.71	15	16	107	9.25	16	16	100	11.06	10.16	10.8
260170014	Bay City	1	2007	30	28	93	10.36	30	28	93	9.61	31	28	90	9.70	30	28	93	11.02	10.17	10.9
260170014	Bay City	1	2008	31	30	97	11.68	30	28	93	7.23	31	27	87	8.47	30	29	97	8.18	8.89	9.7
260170014	Bay City	1	2009	30	29	97	12.13	31	30	97	5.17	30		0		31		0			
260210014	Coloma	1	1999	30	26	87	12.10	30	30	100	12.61	31	30	97	13.72	30	29	97	10.39	12.20	
260210014	Coloma	1	2000	31	31	100	13.60	30	30	100	11.46	31	31	100	12.17	30	30	100	11.21	12.11	
260210014	Coloma	1	2001	30	29	97	14.14	31	30	97	13.86	30	29	97	12.93	31	27	87	11.70	13.16	12.5
260210014	Coloma	1	2002	30	29	97	11.54	30	29	97	12.83	31	31	100	14.93	31	29	94	10.80	12.53	12.6
260210014	Coloma	1	2003	30	29	97	14.27	30	29	97	12.08	31	31	100	13.10	30	28	93	10.58	12.51	12.7
260210014	Coloma	1	2004	31	30	97	10.84	30	27	90	9.66	31	30	97	11.11	30	29	97	9.33	10.24	11.8
260210014	Coloma	1	2005	30	28	93	12.46	31	30	97	12.60	30	30	100	**16.68**	31	30	97	10.47	13.05	11.9
260210014	Coloma	1	2006	30	30	100	11.65	15	15	100	10.16	15	14	93	8.65	16	16	100	13.33	10.95	11.4
260210014	Coloma	1	2007	30	30	100	11.38	30	28	93	10.64	31	29	94	11.83	30	30	100	12.27	11.53	11.8
260210014	Coloma	1	2008	31	30	97	11.48	30	24	80	8.19	31	31	100	10.87	30	28	93	8.59	9.78	10.8
260210014	Coloma	1	2009	30	28	93	12.16	31	30	97	7.47	30		0		31		0			
260490021	Flint	1	1999	30	20	***67***	10.68	30	24	80	11.87	31	31	100	13.22	30	25	83	11.96	11.93	
260490021	Flint	1	2000	31	29	94	**15.29**	30	23	77	13.62	31	29	94	11.03	30	30	100	11.85	12.95	
260490021	Flint	1	2001	30	26	87	12.55	31	30	97	14.30	30	27	90	14.94	31	28	90	10.70	13.12	12.7
260490021	Flint	1	2002	30	24	80	11.76	30	26	87	12.34	31	31	100	14.31	31	30	97	11.76	12.54	12.9
260490021	Flint	1	2003	30	28	93	13.30	30	30	100	12.02	31	30	97	12.30	30	30	100	10.64	12.07	12.6
260490021	Flint	1	2004	31	28	90	11.77	30	24	80	9.37	31	31	100	11.55	30	30	100	9.27	10.49	11.7

Data Completeness and Quarterly Averages of Fine Particulate Material in Michigan, cont….

AIRSID	Site	POC		First Quarter Sch # Rdgs	First Quarter Obs. # Rdgs	First Quarter %	First Quarter Quart. Avg.	Second Quarter Sch # Rdgs	Second Quarter Obs. # Rdgs	Second Quarter %	Second Quarter Quart. Avg.	Third Quarter Sch # Rdgs	Third Quarter Obs. # Rdgs	Third Quarter %	Third Quarter Quart. Avg.	Fourth Quarter Sch # Rdgs	Fourth Quarter Obs. # Rdgs	Fourth Quarter %	Fourth Quarter Quart. Avg.	Annual Avg	3-Yr Annual Avg
260490021	Flint	1	2005	30	29	97	13.72	31	30	97	12.70	30	30	100	14.80	31	30	97	10.32	12.89	11.8
260490021	Flint	1	2006	30	29	97	11.87	30	30	100	9.96	31	29	94	11.17	31	31	100	10.69	10.92	11.4
260490021	Flint	1	2007	30	30	100	11.10	30	30	100	9.12	31	31	100	11.98	30	27	90	12.07	11.07	11.6
260490021	Flint	1	2008	31	31	100	12.59	30	19	63	6.66	31	30	97	11.00	30	28	93	8.82	9.77	10.6
260490021	Flint	1	2009	30	29	97	12.46	31	31	100	6.18	30		0		31		0			
260650012	Lansing	1	1999	30	24	80	10.82	30	19	63	13.73	31	28	90	13.83	30	30	100	11.78	12.54	
260650012	Lansing	1	2000	31	29	94	15.32	30	25	83	12.43	31	26	84	12.45	30	25	83	12.08	13.07	
260650012	Lansing	1	2001	30	28	93	15.46	31	29	94	14.68	30	29	97	13.93	31	31	100	12.09	14.04	13.2
260650012	Lansing	1	2002	30	30	100	12.38	30	28	93	14.40	31	28	90	14.86	31	26	84	12.45	13.52	13.5
260650012	Lansing	1	2003	30	26	87	15.04	30	27	90	12.55	31	29	94	13.51	30	30	100	11.12	13.06	13.5
260650012	Lansing	1	2004	31	28	90	13.15	30	28	93	10.13	31	31	100	10.94	30	29	97	10.02	11.06	12.5
260650012	Lansing	1	2005	30	30	100	14.17	31	30	97	13.97	30	30	100	14.77	31	30	97	11.22	13.53	12.5
260650012	Lansing	1	2006	30	30	100	12.70	30	30	100	10.31	31	31	100	11.51	31	29	94	11.37	11.47	12.0
260650012	Lansing	1	2007	30	27	90	11.49	30	30	100	9.99	31	31	100	12.27	30	29	97	12.17	11.48	12.2
260650012	Lansing	1	2008	31	31	100	12.45	30	30	100	7.65	31	31	100	10.15	30	30	100	9.14	9.85	10.9
260650012	Lansing	1	2009	30	29	97	12.79	31	31	100	6.42	30		0		31		0			
260770008	Kalamazoo	1	1999	30	22	73	15.68	30	21	70	14.54	31	20	65	14.66	30	29	97	14.33	14.80	
260770008	Kalamazoo	1	2000	31	25	81	19.33	30	28	93	12.93	31	30	97	13.48	30	28	93	14.66	15.10	
260770008	Kalamazoo	1	2001	30	27	90	18.60	31	30	97	15.63	30	27	90	14.03	31	29	94	14.25	15.63	15.2
260770008	Kalamazoo	1	2002	30	29	97	14.34	30	30	100	14.81	31	25	81	16.36	31	28	90	13.63	14.79	15.2
260770008	Kalamazoo	1	2003	30	29	97	16.57	30	28	93	11.81	31	29	94	14.32	30	26	87	12.97	13.92	14.8
260770008	Kalamazoo	1	2004	31	29	94	11.77	30	28	93	10.90	31	31	100	12.34	30	26	87	10.30	11.33	13.3
260770008	Kalamazoo	1	2005	30	26	87	12.64	31	31	100	12.98	30	30	100	17.07	31	29	94	12.62	13.83	13.0
260770008	Kalamazoo	1	2006	30	28	93	13.42	30	24	80	12.13	31	22	71	12.20	31	30	97	12.53	12.57	12.6
260770008	Kalamazoo	1	2007	30	29	97	12.43	30	28	93	10.76	31	31	100	13.96	30	30	100	13.31	12.62	13.0
260770008	Kalamazoo	1	2008	31	26	84	14.17	30	29	97	8.85	31	31	100	11.87	30	29	97	9.86	11.19	12.1
260770008	Kalamazoo	1	2009	30	29	97	14.23	31	30	97	7.26	30		0		31		0			
260770008	Kalamazoo	2	1999	15	15	100	14.95	15	26	173	14.11	15	27	180	15.10	15	29	193	13.98	14.53	
260770008	Kalamazoo	2	2000	16	28	175	17.49	15	28	187	12.49	15	30	200	13.49	15	29	193	15.19	14.66	
260770008	Kalamazoo	2	2001	15	16	107	17.16	16	15	94	12.99	15	13	87	13.08	15	13	87	15.26	14.62	14.6
260770008	Kalamazoo	2	2002	15	15	100	15.54	15	14	93	14.94	16	11	69	18.03	15	15	100	12.61	15.28	14.9
260770008	Kalamazoo	2	2003	15	15	100	16.41	15	14	93	13.37	16	15	94	16.07	15	15	100	11.25	14.28	14.7
260770008	Kalamazoo	2	2004	15	12	80	11.08	15	14	93	9.47	16	16	100	12.86	15	14	93	10.94	11.09	13.5
260770008	Kalamazoo	2	2005	15	14	93	12.66	15	13	87	12.36	15	14	93	19.95	16	10	63	13.61	14.65	13.3
260770008	Kalamazoo	2	2006	15	13	87	16.28	15	15	100	10.88	15	11	73	10.67	16	14	88	13.21	12.76	12.8
260770008	Kalamazoo	2	2007	7	5	71	16.40	8	7	88	11.81	7	7	100	14.04	8	6	75	13.55	13.95	13.8
260770008	Kalamazoo	2	2008	8	6	75	11.20	7	6	86	8.73	8	8	100	15.59	7	7	100	8.80	11.08	12.6
260770008	Kalamazoo	2	2009	15	13	87	14.32	16	16	100	8.48	15		0		15		0			
260810007	Wyoming	1	2007	30	27	90	14.00	30	28	93	11.02	31	30	97	12.69	30	27	90	13.63	12.84	
260810007	Wyoming	1	2008	31	31	100	12.83	30	29	97	9.19	31	27	87	12.59	30	30	100	9.99	11.15	12.0
260810007	Wyoming	1	2009	30	30	100	13.30	31	31	100	6.92	30		0		31		0			
260810020	Grand Rapids	1	1999	90	82	91	14.23	91	87	96	13.64	92	86	93	14.00	92	87	95	13.47	13.83	
260810020	Grand Rapids	1	2000	91	88	97	16.35	91	88	97	11.48	92	89	97	12.99	92	88	96	14.41	13.81	
260810020	Grand Rapids	1	2001	90	88	98	17.28	91	84	92	13.22	92	91	99	14.79	92	90	98	12.12	14.35	14.0

Data Completeness and Quarterly Averages of Fine Particulate Material in Michigan, cont….

				First Quarter				Second Quarter				Third Quarter				Fourth Quarter					
AIRSID	Site	POC		Sch # Rdgs	Obs. # Rdgs	% Complete	Quart. Avg.	*Sch # Rdgs*	Obs. # Rdgs	% Complet	Quart. Avg.	Sch # Rdgs	Obs. # Rdgs	% Complet	Quart. Avg.	Sch # Rdgs	Obs. # Rdgs	% Complete	Quart. Avg.	**Annual Avg**	**3-Yr Annual Avg**
260810020	Grand Rapids	1	2002	90	88	98	13.85	91	90	99	12.83	92	85	92	13.95	92	89	97	12.82	13.36	13.8
260810020	Grand Rapids	1	2003	90	86	96	**15.82**	91	90	99	12.33	92	90	98	13.65	92	90	98	12.32	13.53	13.7
260810020	Grand Rapids	1	2004	91	86	95	14.78	91	85	93	9.76	92	88	96	12.37	92	85	92	11.10	12.00	13.0
260810020	Grand Rapids	1	2005	90	87	97	**17.41**	91	86	95	11.44	92	91	99	14.34	92	92	100	11.68	13.72	13.1
260810020	Grand Rapids	1	2006	90	87	97	13.23	30	28	93	10.82	31	30	97	12.68	31	30	97	13.76	12.62	12.8
260810020	Grand Rapids	1	2007	30	28	93	13.11	30	29	97	10.83	31	30	97	12.18	30	29	97	12.88	12.25	12.9
260810020	Grand Rapids	1	2008	91	80	88	12.72	91	89	98	9.39	92	92	100	11.29	92	91	99	9.26	10.67	11.8
260810020	Grand Rapids	1	2009	91	90	99	12.73	31	31	100	6.77	30		0		31		0			
260810020	Grand Rapids	2	1999	15	25	167	**16.54**	15	10	***67***	8.80	15	15	100	**16.45**	15	15	100	13.83	13.91	
260810020	Grand Rapids	2	2000	16	16	100	**17.48**	15	15	100	11.00	15	13	87	11.98	15	13	87	14.73	13.80	
260810020	Grand Rapids	2	2001	15	14	93	**15.61**	16	15	94	13.34	15	14	93	11.76	16	16	100	**16.02**	14.18	14.0
260810020	Grand Rapids	2	2002	15	14	93	13.99	15	15	100	13.66	16	16	100	13.08	16	15	94	11.97	13.18	13.7
260810020	Grand Rapids	2	2003	15	15	100	**18.01**	15	15	100	10.90	16	15	94	14.69	15	14	93	12.39	14.00	13.8
260810020	Grand Rapids	2	2004	15	14	93	12.19	15	14	93	9.15	16	16	100	11.89	15	15	100	11.82	11.26	12.8
260810020	Grand Rapids	2	2005	15	15	100	**17.63**	15	15	100	13.78	15	15	100	**18.43**	16	15	94	11.63	**15.37**	13.5
260810020	Grand Rapids	2	2006	15	14	93	**15.78**	15	15	100	10.27	15	15	100	10.77	16	16	100	**15.33**	13.04	13.2
260810020	Grand Rapids	2	2007	7	8	114	**17.63**	8	7	88	11.33	7	7	100	13.63	8	7	88	**16.06**	14.66	14.4
260810020	Grand Rapids	2	2008	8	7	88	10.39	7	5	***71***	8.98	8	8	100	14.16	7	7	100	9.09	10.66	12.8
260810020	Grand Rapids	2	2009	15	15	100	14.45	16	16	100	7.56	15		0		15		0			
260910007	Tecumseh	1	2008	start date April 1, 2008				30	20	***67***	8.04	31	31	100	11.23	30	29	97	9.84	7.28	
260910007	Tecumseh	1	2009	30	29	97	13.91	31	29	94	7.23	30		0		31		0			
260990009	New Haven	1	1999	30	24	80	11.66	30	22	***73***	13.55	31	31	100	13.95	5	27	540	11.45	12.66	
260990009	New Haven	1	2000	31	29	94	**16.26**	30	29	97	12.76	31	30	97	12.43	30	25	83	12.22	13.42	
260990009	New Haven	1	2001	30	28	93	14.75	31	28	90	14.68	30	29	97	13.18	31	30	97	11.78	13.60	13.2
260990009	New Haven	1	2002	30	28	93	11.86	30	28	93	13.37	31	30	97	**15.19**	31	31	100	12.98	13.35	13.5
260990009	New Haven	1	2003	30	29	97	14.47	30	26	87	12.92	31	31	100	13.08	30	28	93	10.92	12.85	13.3
260990009	New Haven	1	2004	31	31	100	11.82	30	30	100	11.49	31	30	97	14.23	30	30	100	10.29	11.96	12.7
260990009	New Haven	1	2005	30	30	100	**15.21**	31	31	100	14.21	30	29	97	**16.14**	31	30	97	11.94	14.38	13.1
260990009	New Haven	1	2006	30	30	100	13.68	15	15	100	9.65	15	12	80	9.50	16	15	94	12.27	11.28	12.5
260990009	New Haven	1	2007	30	29	97	12.37	30	29	97	9.58	31	27	87	13.33	30	29	97	12.46	11.94	12.5
260990009	New Haven	1	2008	31	30	97	13.24	30	27	90	9.10	31	30	97	10.91	30	30	100	9.38	10.66	11.3
260990009	New Haven	1	2009	30	28	93	13.71	31	31	100	6.30	30		0		31		0			
261010922	Manistee (tribal)	1	2006	sampling began April 2, 2006				30	22	***73***	9.01	31	22	***71***	9.76	31	28	90	8.60	9.12	
261010922	Manistee (tribal)	1	2007	30	26	87	6.83	30	26	87	8.08	31	27	87	10.77	30	30	100	8.49	8.54	
261010922	Manistee (tribal)	1	2008	31	30	97	8.14	30	24	80	7.72	31	28	90	7.90	30	29	97	6.70	7.62	8.4
261010922	Manistee (tribal)	1	2009	30	27	90	6.65	31	28	90	4.68	30		0		31		0			
261130001	Houghton Lake	1	2003	13	12	92	8.18	30	26	87	7.29	31	30	97	9.93	30	25	83	6.43	7.96	
261130001	Houghton Lake	1	2004	31	30	97	7.16	30	29	97	7.59	31	25	81	9.24	30	27	90	5.16	7.29	
261130001	Houghton Lake	1	2005	30	28	93	8.64	31	28	90	10.50	30	27	90	11.93	31	27	87	6.45	9.38	8.2
261130001	Houghton Lake	1	2006	30	27	90	7.40	30	29	97	7.54	31	27	87	8.63	31	31	100	7.49	7.77	8.1
261130001	Houghton Lake	1	2007	30	27	90	5.97	30	24	80	7.80	31	29	94	9.81	30	30	100	7.92	7.88	8.3
261130001	Houghton Lake	1	2008	31	29	94	7.85	30	26	87	4.96	31	30	97	6.97	30	29	97	6.14	6.48	7.4
261130001	Houghton Lake	1	2009	30	30	100	8.31	31	29	94	4.23	30		0		31		0			
261150005	Luna Pier	1	1999	---	---	---	---	---	---	---	---	---	---	---	---	5	5	100	12.56	12.56	

Data Completeness and Quarterly Averages of Fine Particulate Material in Michigan, cont….

AIRSID	Site	POC		First Quarter				Second Quarter				Third Quarter				Fourth Quarter					
				Sch # Rdgs	Obs. # Rdgs	%	Quart. Avg.	Sch # Rdgs	Obs. # Rdgs	%	Quart. Avg.	Sch # Rdgs	Obs. # Rdgs	%	Quart. Avg.	Sch # Rdgs	Obs. # Rdgs	%	Quart. Avg.	Annual Avg	3-Yr Annual Avg
261150005	Luna Pier	1	2000	31	30	97	**16.92**	30	29	97	14.54	31	29	94	14.33	30	29	97	14.96	**15.19**	
261150005	Luna Pier	1	2001	30	27	90	**16.24**	31	25	81	**16.58**	30	29	97	**15.68**	31	30	97	12.69	**15.30**	14.3
261150005	Luna Pier	1	2002	30	30	100	14.99	30	27	90	**17.77**	31	28	90	**15.96**	31	25	81	**16.30**	**16.26**	**15.6**
261150005	Luna Pier	1	2003	30	28	93	**15.93**	30	27	90	12.84	31	31	100	14.36	30	30	100	12.01	13.79	**15.1**
261150005	Luna Pier	1	2004	31	26	84	13.02	30	30	100	12.61	31	31	100	14.83	30	29	90	11.47	12.98	14.3
261150005	Luna Pier	1	2005	30	28	93	**16.50**	31	27	87	13.40	30	27	90	**19.78**	31	30	97	13.10	**15.70**	14.2
261150005	Luna Pier	1	2006	30	27	90	14.55	30	29	97	10.91	31	30	97	12.98	31	30	97	12.45	12.72	13.8
261150005	Luna Pier	1	2007	30	29	97	12.26	30	26	87	11.41	31	29	94	14.87	30	30	100	13.78	13.08	13.8
261150005	Luna Pier	1	2008	31	31	100	13.25	30	30	100	9.76	31	29	94	12.28	30	27	90	10.16	11.36	12.4
261150005	Luna Pier	1	2009	30	30	100	13.84	31	30	97	8.19	30		0		31		0			
261210040	Muskegon	1	1999	80	66	83	11.20	30	29	97	13.06	31	20	***65***	13.14	30	24	80	11.41	12.20	
261210040	Muskegon	1	2000	31	30	97	14.45	30	28	93	10.64	31	29	94	12.41	30	30	100	9.91	11.85	
261210040	Muskegon	1	2001	30	30	100	12.39	31	30	97	13.09	30	30	100	12.72	31	31	100	12.09	12.57	12.2
261210040	Muskegon	1	2002	30	28	93	11.21	30	27	90	12.73	31	31	100	14.55	31	30	97	10.95	12.36	12.3
261210040	Muskegon	1	2003	30	29	97	13.70	30	30	100	10.50	31	29	94	12.83	30	30	100	10.57	11.90	12.3
261210040	Muskegon	1	2004	31	30	97	10.14	30	29	97	9.19	31	30	97	11.52	30	30	100	9.81	10.17	11.5
261210040	Muskegon	1	2005	30	30	100	14.81	31	30	97	12.64	30	26	87	**15.13**	31	30	97	9.70	13.07	11.7
261210040	Muskegon	1	2006	30	27	90	10.44	15	15	100	9.79	15	15	100	9.69	16	14	88	**15.30**	11.30	11.5
261210040	Muskegon	1	2007	90	87	97	9.41	91	90	99	10.77	92	83	90	10.73	92	88	96	11.11	10.51	11.6
261210040	Muskegon	1	2008	91	82	90	10.44	91	90	99	9.28	92	85	92	11.00	92	91	99	7.83	9.64	10.5
261210040	Muskegon	1	2009	91	84	92	11.06	31	33	106	6.57	30		0		31		0			
261250001	Oak Park	1	1999	30	25	83	13.83	30	18	***60***	14.84	31	25	81	14.64	30	26	87	13.32	14.16	
261250001	Oak Park	1	2000	31	24	77	**18.57**	30	28	93	14.79	31	18	***58***	11.88	30	20	***67***	**16.31**	**15.39**	
261250001	Oak Park	1	2001	30	28	93	**15.58**	31	26	84	**17.30**	30	26	87	14.81	31	16	**52**	12.23	14.98	14.8
261250001	Oak Park	1	2002	30	15	***50***	12.73	30	21	***70***	**17.29**	31	27	87	**16.07**	31	27	87	13.90	**15.00**	**15.1**
261250001	Oak Park	1	2003	30	28	93	**18.39**	30	27	90	13.79	31	30	97	13.66	30	30	100	12.48	14.58	14.9
261250001	Oak Park	1	2004	31	30	97	13.73	30	30	100	11.26	31	30	97	14.78	30	27	90	11.26	12.76	14.1
261250001	Oak Park	1	2005	30	27	90	**17.49**	31	31	100	13.77	30	30	100	**17.61**	31	30	97	12.99	**15.47**	14.3
261250001	Oak Park	1	2006	30	27	90	13.51	15	15	100	10.40	15	14	93	10.76	16	16	100	13.78	12.11	13.4
261250001	Oak Park	1	2007	30	30	100	12.48	30	28	93	12.27	31	30	97	14.68	30	30	100	13.89	13.33	13.6
261250001	Oak Park	1	2008	31	30	97	13.59	30	28	93	8.75	31	30	97	11.31	30	30	100	9.79	10.86	12.1
261250001	Oak Park	1	2009	30	30	100	14.24	31	30	97	7.26	30		0		31		0			
261390005	Jenison	1	1999	30	27	90	13.95	30	30	100	12.40	31	29	94	13.54	30	29	97	11.70	12.90	
261390005	Jenison	1	2000	31	30	97	**16.98**	30	28	93	11.22	31	31	100	12.26	30	30	100	12.37	13.21	
261390005	Jenison	1	2001	30	30	100	**15.93**	31	28	90	14.06	30	29	97	12.72	31	29	94	12.65	13.84	13.3
261390005	Jenison	1	2002	30	28	93	12.93	30	29	97	14.09	31	30	97	14.97	31	28	90	12.32	13.58	13.5
261390005	Jenison	1	2003	30	28	93	**16.01**	30	30	100	11.34	31	31	100	12.58	30	30	100	11.04	12.74	13.4
261390005	Jenison	1	2004	31	30	97	12.90	30	30	100	10.18	31	29	94	11.81	30	28	93	10.42	11.33	12.5
261390005	Jenison	1	2005	30	29	97	**16.21**	31	31	100	12.71	30	27	90	14.89	31	30	97	12.16	13.99	12.7
261390005	Jenison	1	2006	30	28	93	12.04	15	14	93	10.53	15	15	100	10.06	16	16	100	**15.44**	12.02	12.4
261390005	Jenison	1	2007	90	89	99	12.21	91	89	98	10.91	92	92	100	11.48	92	90	98	12.13	11.68	12.6
261390005	Jenison	1	2008	91	87	96	13.05	91	89	98	9.67	92	89	97	11.54	92	90	98	9.01	10.82	11.5
261390005	Jenison	1	2009	91	81	89	11.82	31	27	87	6.81	30		0		31		0			
261470005	Port Huron	1	1999	16	23	144	12.13	30	25	83	13.46	31	28	90	**15.12**	30	27	90	11.94	13.16	

Data Completeness and Quarterly Averages of Fine Particulate Material in Michigan, cont….

				First Quarter				Second Quarter				Third Quarter				Fourth Quarter					
AIRSID	Site	POC		Sch # Rdgs	Obs. # Rdgs	%	Quart. Avg.	Sch # Rdgs	Obs. # Rdgs	%	Quart. Avg.	Sch # Rdgs	Obs. # Rdgs	%	Quart. Avg.	Sch # Rdgs	Obs. # Rdgs	%	Quart. Avg.	Annual Avg	3-Yr Annual Avg
261470005	Port Huron	1	2000	31	21	*68*	17.04	30	26	87	14.65	31	29	94	12.83	30	26	87	12.87	14.35	
261470005	Port Huron	1	2001	30	28	93	13.65	31	30	97	16.26	30	27	90	14.12	31	27	87	11.81	13.96	13.8
261470005	Port Huron	1	2002	30	29	97	12.13	30	26	87	14.03	31	29	94	16.28	31	29	94	12.91	13.84	14.0
261470005	Port Huron	1	2003	30	24	80	18.73	30	30	100	13.11	31	29	94	13.05	30	27	90	12.11	14.25	14.0
261470005	Port Huron	1	2004	31	28	90	11.44	30	28	93	12.81	31	27	87	13.18	30	29	97	10.99	12.11	13.4
261470005	Port Huron	1	2005	30	30	100	16.76	31	28	90	14.73	30	24	80	16.47	31	29	94	12.41	15.09	13.8
261470005	Port Huron	1	2006	30	30	100	15.52	15	15	100	10.71	15	15	100	9.09	16	16	100	12.86	12.04	13.1
261470005	Port Huron	1	2007	30	29	97	12.64	30	28	93	9.97	31	30	97	14.49	30	29	97	12.64	12.44	13.2
261470005	Port Huron	1	2008	31	30	97	13.66	30	29	97	9.78	31	30	97	11.56	30	29	97	9.31	11.08	11.9
261470005	Port Huron	1	2009	30	27	90	13.99	31	31	100	6.92	30		0		31		0			
261610008	Ypsilanti	1	1999	---	---	---	---	---	---	---	---	20	18	90	14.72	30	28	93	13.66	14.19	
261610008	Ypsilanti	1	2000	31	13	*42*	16.82	30	28	93	12.85	31	31	100	13.21	30	30	100	14.16	14.26	
261610008	Ypsilanti	1	2001	30	28	93	15.92	31	30	97	15.46	30	29	97	14.15	31	30	97	12.44	14.49	14.3
261610008	Ypsilanti	1	2002	30	29	97	14.71	30	30	100	14.57	31	26	84	16.43	31	29	94	13.72	14.86	14.5
261610008	Ypsilanti	1	2003	30	25	83	16.70	30	28	93	15.05	31	30	97	14.39	30	29	97	12.78	14.73	14.7
261610008	Ypsilanti	1	2004	31	30	97	13.74	30	28	93	11.76	31	31	100	14.17	30	29	97	11.79	12.87	14.2
261610008	Ypsilanti	1	2005	30	29	97	17.49	31	27	87	14.27	30	29	97	17.69	31	29	94	13.00	15.61	14.4
261610008	Ypsilanti	1	2006	30	24	80	14.80	30	29	97	10.67	31	29	94	13.12	31	23	*74*	11.61	12.55	13.7
261610008	Ypsilanti	1	2007	30	27	90	12.95	30	27	90	11.68	31	30	97	13.78	30	30	100	13.51	12.98	13.7
261610008	Ypsilanti	1	2008	31	28	90	13.23	30	30	100	9.07	31	31	100	11.21	30	29	97	10.13	10.91	12.1
261610008	Ypsilanti	1	2009	30	29	97	13.50	31	30	97	7.76	30		0		31		0			
261610008	Ypsilanti	2	2001	15	14	93	16.19	16	16	100	13.99	15	12	80	12.18	15	14	93	12.86	13.81	
261610008	Ypsilanti	2	2002	15	13	87	12.35	15	11	*73*	13.34	15	11	*73*	13.17	15	14	93	13.14	13.00	
261610008	Ypsilanti	2	2003	15	14	93	16.80	15	14	*93*	13.59	16	16	100	17.41	15	14	93	12.69	15.12	14.0
261610008	Ypsilanti	2	2004	15	14	93	10.29	15	14	93	9.83	16	16	100	13.21	15	15	100	11.01	11.09	13.1
261610008	Ypsilanti	2	2005	15	15	100	18.79	15	15	100	15.01	15	13	87	21.35	16	16	100	11.65	16.70	14.3
261610008	Ypsilanti	2	2006	15	12	80	17.93	16	13	81	10.52	16	14	88	11.64	16	16	100	14.01	13.53	13.8
261610008	Ypsilanti	2	2007	7	6	86	17.67	8	6	75	9.47	7	7	100	14.90	8	6	75	15.17	14.30	14.8
261610008	Ypsilanti	2	2008	8	13	163	15.17	7	7	100	9.70	8	7	88	18.16	7	7	100	8.91	12.99	13.6
261610008	Ypsilanti	2	2009	15	14	93	12.97	16	16	100	9.04	15		0		15		0			
261630001	Allen Park	1	1999	---	---	---	---	17	48	282	18.99	92	78	85	16.63	92	83	90	14.37	16.66	
261630001	Allen Park	1	2000	91	81	89	16.99	91	86	95	13.69	92	87	95	14.46	92	85	92	17.08	15.56	
261630001	Allen Park	1	2001	90	76	84	20.05	91	80	88	16.68	92	86	93	17.46	92	55	*60*	14.79	17.25	16.5
261630001	Allen Park	1	2002	90	78	87	15.32	91	72	79	16.15	92	66	*72*	17.33	92	87	95	15.02	15.96	16.3
261630001	Allen Park	1	2003	90	79	88	17.37	91	86	95	15.25	92	80	*87*	15.11	90	80	89	13.17	15.23	16.1
261630001	Allen Park	1	2004	91	74	81	15.41	91	85	93	12.22	92	89	97	16.18	92	83	90	13.14	14.24	15.1
261630001	Allen Park	1	2005	90	88	98	18.45	91	86	95	13.77	92	89	97	17.15	92	86	93	14.38	15.94	15.1
261630001	Allen Park	1	2006	90	81	90	13.70	91	83	91	11.59	92	87	95	13.76	92	90	98	13.65	13.18	14.5
261630001	Allen Park	1	2007	90	86	96	12.92	91	88	97	10.28	92	86	93	13.74	92	92	100	14.08	12.76	14.0
261630001	Allen Park	1	2008	91	88	97	13.86	91	90	99	10.18	92	86	93	12.98	92	87	95	10.30	11.83	12.6
261630001	Allen Park	1	2009	90	84	93	13.87	91	89	98	8.94	92		0		92		0			
261630001	Allen Park	2	1999	---	---	---	---	9	6	*67*	26.08	15	13	87	18.22	15	12	80	14.54	19.62	
261630001	Allen Park	2	2000	16	13	81	16.82	15	12	80	13.32	15	14	93	15.29	15	15	100	18.57	16.00	
261630001	Allen Park	2	2001	15	14	93	18.62	16	15	94	15.82	15	15	100	16.22	15	13	87	14.22	16.22	17.3

Data Completeness and Quarterly Averages of Fine Particulate Material in Michigan, cont….

AIRSID	Site	POC		First Quarter				Second Quarter				Third Quarter				Fourth Quarter				Annual	3-Yr Annual
				Sch # Rdgs	Obs. # Rdgs	%	Quart. Avg.	Sch # Rdgs	Obs. # Rdgs	%	Quart. Avg.	Sch # Rdgs	Obs. # Rdgs	%	Quart. Avg.	Sch # Rdgs	Obs. # Rdgs	%	Quart. Avg.	Avg	Avg
261630001	Allen Park	2	2002	15	6	***40***	13.10	15	9	***60***	11.80	15	7	***47***	**16.19**	15	15	100	14.63	13.93	**15.4**
261630001	Allen Park	2	2003	15	10	67	**21.21**	15	15	100	**16.63**	16	15	94	**18.77**	15	15	100	13.45	**17.52**	**15.9**
261630001	Allen Park	2	2004	15	15	100	12.03	15	14	93	10.63	16	15	94	13.68	15	14	93	12.96	12.33	14.6
261630001	Allen Park	2	2005	15	14	93	**19.61**	15	15	100	**16.22**	15	15	100	**22.47**	16	15	94	12.35	**17.66**	**15.8**
261630001	Allen Park	2	2006	15	13	87	**17.32**	15	13	87	11.35	15	13	87	12.00	16	15	94	14.77	13.86	14.6
261630001	Allen Park	2	2007	7	5	***71***	**18.04**	8	6	75	8.62	7	6	86	**17.47**	8	6	75	**18.47**	**15.65**	**15.7**
261630001	Allen Park	2	2008	8	8	100	14.28	7	7	100	11.31	8	5	***63***	**21.02**	7	7	100	9.06	13.92	**14.5**
261630001	Allen Park	2	2009	15	15	100	14.55	16	15	94	10.11	15		0		15		0			
261630015	SW HS	1	1999	12	8	***67***	**18.69**	30	27	90	**16.54**	31	25	81	**18.54**	30	25	83	**16.53**	**17.57**	
261630015	SW HS	1	2000	31	30	97	**20.34**	30	28	93	**17.04**	31	31	100	**16.29**	30	30	100	**18.71**	**18.10**	
261630015	SW HS	1	2001	30	29	97	**19.33**	31	28	90	**20.05**	30	30	100	**17.67**	31	27	87	**16.07**	**18.28**	**18.0**
261630015	SW HS	1	2002	30	27	90	**16.80**	30	27	90	**17.42**	31	25	81	**18.27**	31	29	94	**17.20**	**17.42**	**17.9**
261630015	SW HS	1	2003	30	26	87	**17.41**	30	27	90	**15.39**	31	30	97	**16.68**	30	27	90	**17.26**	**16.69**	**17.5**
261630015	SW HS	1	2004	31	31	100	14.95	30	27	90	**15.01**	31	29	94	**17.69**	30	28	93	13.90	**15.39**	**16.5**
261630015	SW HS	1	2005	30	27	90	**20.20**	31	27	87	14.73	30	30	100	**18.73**	31	30	97	**15.18**	**17.21**	**16.4**
261630015	SW HS	1	2006	30	29	97	**16.98**	30	26	87	12.26	31	28	90	14.93	31	31	100	14.56	14.68	**15.8**
261630015	SW HS	1	2007	30	28	93	**15.15**	30	30	100	13.06	31	27	87	15.12	30	29	97	14.82	14.54	**15.5**
261630015	SW HS	1	2008	31	31	100	**16.07**	30	30	100	11.00	31	32	103	12.03	30	29	97	12.29	12.85	14.0
261630015	SW HS	1	2009	30	30	100	**15.40**	31	28	90	8.18	30		0		31		0			
261630016	Linwood	1	1999	---	---	---	---	17	28	165	**19.30**	92	79	86	**15.76**	92	82	89	**16.17**	**17.08**	
261630016	Linwood	1	2000	91	83	91	**17.67**	91	74	81	13.82	92	78	85	13.52	92	90	98	**16.94**	**15.49**	
261630016	Linwood	1	2001	90	81	90	**17.19**	91	84	92	**15.66**	92	83	90	**16.57**	92	79	86	13.47	**15.72**	**16.1**
261630016	Linwood	1	2002	90	73	81	**15.04**	91	82	90	**15.61**	92	75	82	**16.78**	92	88	96	14.95	**15.60**	**15.6**
261630016	Linwood	1	2003	90	84	93	**18.36**	91	85	93	**15.33**	92	86	93	14.94	92	71	77	14.78	**15.85**	**15.7**
261630016	Linwood	1	2004	91	76	84	14.87	91	80	88	12.10	92	82	89	14.78	92	86	93	13.00	13.69	**15.0**
261630016	Linwood	1	2005	90	87	97	**18.92**	91	79	87	14.78	92	84	91	**16.62**	92	88	96	13.70	**16.01**	**15.2**
261630016	Linwood	1	2006	90	79	88	13.04	15	14	93	11.58	15	13	87	12.58	16	17	106	14.97	13.04	14.2
261630016	Linwood	1	2007	30	26	87	13.98	30	26	87	12.12	31	30	97	14.74	30	29	97	14.61	13.86	14.3
261630016	Linwood	1	2008	31	29	94	14.59	30	30	100	9.58	31	29	94	12.61	30	30	100	10.96	11.94	12.9
261630016	Linwood	1	2009	30	27	90	14.27	31	27	87	8.22	30		0		31		0			
261630019	E 7 Mile	1	2000	---	---	---	---	21	17	81	13.93	31	24	77	13.74	30	29	97	**15.87**	14.51	
261630019	E 7 Mile	1	2001	30	26	87	14.58	31	29	94	14.88	30	30	100	14.76	31	30	97	13.79	14.50	
261630019	E 7 Mile	1	2002	30	26	87	14.39	30	28	93	**15.83**	31	28	90	**17.86**	31	30	97	14.48	**15.64**	14.9
261630019	E 7 Mile	1	2003	30	26	87	**17.05**	30	30	100	14.80	31	30	97	13.98	30	29	97	13.01	14.71	**15.0**
261630019	E 7 Mile	1	2004	31	31	100	13.23	30	29	97	12.47	31	30	97	**15.44**	30	29	97	11.76	13.23	14.5
261630019	E 7 Mile	1	2005	30	28	93	**19.82**	31	31	100	14.48	30	29	97	**17.43**	31	29	94	14.20	**16.48**	14.8
261630019	E 7 Mile	1	2006	30	30	100	**15.20**	15	15	100	10.39	15	14	93	11.78	16	16	100	13.46	12.71	14.1
261630019	E 7 Mile	1	2007	30	30	100	13.20	30	28	93	11.16	31	31	100	14.36	30	27	90	13.31	13.01	14.1
261630019	E 7 Mile	1	2008	31	30	97	13.60	30	30	100	9.51	31	26	84	11.42	30	30	100	10.79	11.33	12.3
261630019	E 7 Mile	1	2009	30	30	100	14.73	31	31	100	7.61	30		0		31		0			
261630025	Livonia	1	1999	---	---	---	---	---	---	---	---	15	15	100	**15.21**	30	19	***63***	10.93	13.07	
261630025	Livonia	1	2000	31	30	97	**16.53**	30	28	93	14.08	31	30	97	13.28	30	25	83	14.46	14.59	
261630025	Livonia	1	2001	30	27	90	**15.39**	31	30	97	**15.67**	30	29	97	**15.14**	31	29	94	12.18	14.60	14.1
261630025	Livonia	1	2002	30	18	***60***	13.33	30	28	93	14.26	31	29	94	**16.47**	31	28	90	13.43	14.37	14.5

Data Completeness and Quarterly Averages of Fine Particulate Material in Michigan, cont….

				First Quarter				Second Quarter				Third Quarter				Fourth Quarter					3-Yr
				Sch #	Obs. #		Quart.	Sch #	Obs. #		Quart.	Sch #	Obs. #		Quart.	Sch #	Obs. #		Quart.	Annual	Annual
AIRSID	Site	POC		Rdgs	Rdgs	%	Avg.	Rdgs	Rdgs	%	Avg.	Rdgs	Rdgs	%	Avg.	Rdgs	Rdgs	%	Avg.	Avg	Avg
261630025	Livonia	1	2003	30	26	87	**15.96**	30	28	100	**15.36**	31	31	100	13.89	30	27	90	11.59	14.20	14.4
261630025	Livonia	1	2004	31	29	94	12.72	30	25	83	11.98	31	28	90	14.13	30	30	100	11.45	12.57	13.7
261630025	Livonia	1	2005	30	26	87	**17.86**	31	28	90	11.74	30	30	100	**17.45**	31	30	97	12.68	14.93	13.9
261630025	Livonia	1	2006	30	27	90	13.49	15	14	93	11.23	15	15	100	10.01	16	17	106	12.70	11.86	13.1
261630025	Livonia	1	2007	30	26	87	12.23	30	30	100	10.59	31	31	100	13.76	30	27	90	14.42	12.75	13.2
261630025	Livonia	1	2008	31	27	87	13.56	30	29	97	9.50	31	31	100	11.21	30	30	100	9.77	11.01	11.9
261630025	Livonia	1	2009	30	29	97	13.93	31	31	100	7.40	30		0		31		0			
261630033	Dearborn	1	1999	19	8	***42***	13.98	30	26	87	**16.75**	31	28	90	**18.31**	30	29	97	**18.24**	**16.82**	
261630033	Dearborn	1	2000	31	29	94	**22.76**	30	23	77	**20.13**	31	27	87	**17.56**	30	29	97	**20.06**	**20.13**	
261630033	Dearborn	1	2001	30	29	97	**20.95**	31	29	94	**18.58**	30	28	93	**18.27**	31	29	94	**20.63**	**19.61**	**18.9**
261630033	Dearborn	1	2002	30	29	97	**20.99**	30	28	93	**18.15**	31	29	94	**20.22**	31	30	97	**20.00**	**19.84**	**19.9**
261630033	Dearborn	1	2003	30	28	93	**22.59**	30	27	90	**19.03**	31	27	87	**17.83**	30	28	93	**17.34**	**19.20**	**19.5**
261630033	Dearborn	1	2004	31	29	94	**17.71**	30	25	83	**16.10**	31	25	81	**17.46**	30	28	93	**16.06**	**16.83**	**18.6**
261630033	Dearborn	1	2005	30	28	93	**21.50**	31	31	100	**16.57**	30	28	93	**18.22**	31	28	90	**17.90**	**18.55**	**18.2**
261630033	Dearborn	1	2006	30	28	93	**18.79**	30	29	97	12.85	31	27	87	**15.56**	31	31	100	**17.30**	**16.13**	**17.2**
261630033	Dearborn	1	2007	30	29	97	**18.84**	30	29	97	**15.20**	31	29	94	**16.02**	30	27	90	**17.49**	**16.89**	**17.2**
261630033	Dearborn	1	2008	31	31	100	**16.59**	30	28	93	11.18	31	30	97	13.51	30	30	100	12.06	13.34	**15.4**
261630033	Dearborn	1	2009	30	29	97	**17.29**	31	31	100	8.42	30		0		31		0			
261630036	Wyandotte	1	1999	14	7	***50***	**17.06**	30	17	***57***	14.55	31	26	84	**18.85**	30	21	***70***	14.67	**16.28**	
261630036	Wyandotte	1	2000	31	16	***52***	**19.30**	30	28	93	**16.52**	31	29	94	**15.64**	30	30	100	**19.07**	**17.63**	
261630036	Wyandotte	1	2001	30	30	100	**21.49**	31	30	97	**17.53**	30	29	97	**18.53**	31	24	77	**15.26**	**18.20**	**17.4**
261630036	Wyandotte	1	2002	30	24	80	**15.40**	30	28	93	**15.98**	31	28	90	**16.51**	31	25	81	**17.24**	**16.28**	**17.4**
261630036	Wyandotte	1	2003	30	24	80	**15.07**	30	24	80	**20.37**	31	28	90	**16.37**	30	29	97	13.45	**16.32**	**16.9**
261630036	Wyandotte	1	2004	31	27	87	14.48	30	29	97	12.74	31	29	94	**15.91**	30	28	93	11.52	13.66	**15.4**
261630036	Wyandotte	1	2005	30	29	97	**16.96**	31	28	90	14.93	30	29	97	**18.58**	31	27	87	**15.19**	**16.42**	**15.5**
261630036	Wyandotte	1	2006	30	29	97	**15.10**	30	26	87	10.95	31	29	94	13.69	31	29	94	11.94	12.92	14.3
261630036	Wyandotte	1	2007	30	29	97	13.75	30	28	93	11.96	31	30	97	14.60	30	29	97	13.47	13.45	14.3
261630036	Wyandotte	1	2008	31	31	100	12.55	30	29	97	9.47	31	30	97	11.95	30	30	100	9.78	10.94	12.4
261630036	Wyandotte	1	2009	30	28	93	14.21	31	30	97	7.86	30		0		31		0			
261630038	Newberry	1	2004	---	---	---	---	---	---	---	---	---	---	---	---	2	2	100	**29.70**		
261630038	Newberry	1	2005	30	28	93	**16.98**	31	25	81	14.60	30	22	***73***	**17.66**			*vandalism*		**16.41**	
261630038	Newberry	1	2006			*vandalism*		30	29	97	11.09	31	27	87	14.34	31	28	90	11.98	9.35	
261630038	Newberry	1	2007	30	27	90	13.63	30	27	90	12.85	31	28	90	**15.35**	30	30	100	14.23	14.02	13.3
261630038	Newberry	1	2008	31	29	94	13.95	30	30	100	10.15	31	28	90	12.16	30	28	93	10.99	11.81	11.7
261630038	Newberry	1	2009	30	25	83	13.24	31	29	94	7.89	30		0		31		0			
261630039	FIA\Lafayette St	1	2005									---	7	---	**18.20**	31	28	90	14.25		
261630039	FIA\Lafayette St	1	2006	30	29	97	14.78	30	30	100	11.71	31	31	100	14.20	31	30	97	11.84	13.13	
261630039	FIA\Lafayette St	1	2007	30	29	97	13.83	30	30	100	12.98	31	30	97	14.65	30	28	93	13.86	13.83	13.5
261630039	FIA\Lafayette St	1	2008	31	30	97	14.26	30	28	93	10.70	31	29	94	12.80	30	29	97	11.14	12.23	13.1
261630039	FIA\Lafayette St	1	2009	30	29	97	14.67	31	31	100	7.89	30		0		31		0			

A 3-year annual average of 15.1 ug/m3 would violate the NAAQS according to the data handling conventions in 40 CFR part 50

98th Percentile $PM_{2.5}$ Values Averaged over 3 Years

updated 8-14-09

*** Muskegon & Holland changed sampling frequency Jan & Feb 1999. This reflects most recent sampling freq.

sampling frequency changed to 1:6 on April 1, 2006 due to budget cuts.

red'n in samplling frequency from 1:6 to 1:12

sampling frequency changed from 1:1 to 1:3 on April 1, 2006 due to budget cuts.

sampling frequeny increased to daily - +/- 5% NAAQS

AIRS ID	Site	POC	Current Sampling Freq	2003 98th % ile	2004 98th % ile	2005 98th % ile	2006 98th % ile	2007 98th % ile	2008 98th % ile	2009 98th % ile	03-05 Avg	04-06 Avg	05-07 Avg	06-08 Avg
260050003	Holland	1	1 in 3	35.6	30.3	36.1	34.1	31.7	24.5	26.3	34	34	34	30
260140014	Bay City	1	1 in 3	26.7	28.0	40.5	27.9	25.2	23.6	23.3	32	32	31	26
260210014	Coloma	1	1 in 3	34.1	29.0	33.8	27.7	33.0	24.8	28.0	32	30	32	29
260490021	Flint	1	1 in 3	32.2	27.9	35.9	26.7	25.1	25.8	23.8	32	30	29	26
260650012	Lansing	1	1 in 3	29.0	29.4	38.1	28.3	29.0	24.0	24.5	32	32	32	27
260770008	Kalamazoo	1	1 in 3	36.9	27.3	33.3	29.1	29.2	26.0	31.9	33	30	31	28
260770008	Kalamazoo	2	1 in 6	35.7	28.9	31.5	29.1	32.5	24.1	36.4	32	30	31	29
260810007	Wealthy	1	1 in 3	---	---	---	---	29.7	26.8	28.8				
260810020	Grand Rapids	1	1 in 1	35.0	31.8	44.7	33.2	29.7	24.9	30.0	37	37	36	29
260810020	Grand Rapids	2	1 in 6	29.6	30.5	45.6	31.5	31.7	22.5	30.8	35	36	36	29
260910007	Tecumseh	1	1 in 3	---	---	---	---	---	23.4	31.3	---	---	---	---
260990009	New Haven	1	1 in 3	31.8	31.9	41.5	34.4	29.0	28.9	26.2	35	36	35	31
261010922	Manistee	1	1 in 3	---	---	---	25.9	26.5	21.2	18.7	---	---	---	25
261130001	Houghton Lake	1	1 in 3	23.6	21.0	30.8	21.6	23.2	21.1	20.4	25	24	25	22
261150005	Luna Pier	1	1 in 3	34.7	35.0	49.3	32.6	32.2	28.6	27.5	40	39	38	31
261210040	Muskegon	1	1 in 3	36.3	32.7	41.0	29.8	28.1	26.3	26.8	37	35	33	28
261250001	Oak Park	1	1 in 3	36.6	32.5	52.2	33.0	35.3	30.4	30.1	40	39	40	33
261390005	Jenison	1	1 in 3	31.0	30.9	42.3	30.2	28.1	27.1	26.5	35	34	34	28
261470005	Port Huron	1	1 in 3	37.2	32.2	47.6	37.9	36.3	31.0	29.9	39	39	41	35
261610008	Ypsilanti	1	1 in 3	38.8	31.5	52.1	31.3	34.5	28.2	32.2	41	38	39	31
261610008	Ypsilanti	2	1 in 6	32.5	31.2	54.6	33.0	30.6	31.3	28.3	39	40	39	32
261630001	Allen Park	1	1 in 1	40.5	36.9	43.0	32.8	31.0	30.3	29.7	40	38	36	31
261630001	Allen Park	2	1 in 6	39.2	33.8	58.0	34.2	36.2	32.3	32.4	44	42	43	34
261630015	SW High Sch.	1	1 in 3	33.6	36.0	49.7	36.2	34.0	34.3	32.0	40	41	40	35
261630016	Linwood	1	1 in 6	46.2	38.3	51.8	36.9	34.3	30.0	31.0	45	42	41	34
261630019	E 7 Mile	1	1 in 6	37.1	35.0	52.3	36.2	31.9	31.9	29.2	41	41	40	33
261630025	Livonia	1	1 in 6	38.1	32.2	40.2	30.4	32.8	28.3	34.1	37	34	34	31
261630033	Dearborn	1	1 in 3	42.8	39.4	50.2	43.1	36.6	31.7	35.8	44	44	43	37
261630036	Wyandotte	1	1 in 3	34.8	32.3	46.7	33.2	28.6	26.3	30.3	38	37	36	29
261630038	Newberry	1	1 in 3	---	36.8	57.5	28.6	33.4	31.5	25.9	---	41	40	31
261630039	FIA/Lafayette	1	1 in 3	---	---	43.9	32.4	34.8	31.7	32.4	---	38	37	33

A 3-year 24-hour average of 36 ug/m3 would violate the NAAQS according to the data handling conventions in 40 CFR part 50