

FACTS2 [O3] 1998 season, Harshaw, WI (165 days)

		May		June		July		Aug.		Sept.		Oct. 1-12		1998 Season	
		Mean	Sum	Mean	Sum	Mean	Sum	Mean	Sum	Mean	Sum	Mean	Sum	Mean	Sum
		ppb	ppm*h	ppb	ppm*h	ppb	ppm*h	ppb	ppm*h	ppb	ppm*h	ppb	ppm*h	ppb	ppm*h
Ambient	North	44	12.6	35	12.5	32	11.9	44	13.6	41	11.1	29	2.1	37.5	63.8
	South	40	11.5	32	11.7	31	11.5	41	12.6	35	9.3	25	1.8	34.0	58.4
	East	40	11.5	31	11.3	27	10	37	11.4	34	9.2	24	1.8	32.2	55.2
Ring	1.3	52	17.9	55	19.7	57	21.2	59	18.4	64	17.3	38	2.8	54.2	97.3
	1.4	52	17.2	55	19.9	55	20.5	64	19.8	64	17.3	38	2.8	54.7	97.5
	2.3	54	18.6	57	20.5	58	21.6	58	18	65	17.6	39	2.8	55.2	99.1
	2.4	53	18.3	57	20.3	57	21.2	62	19.1	65	17.6	39	2.8	55.5	99.3
	3.3	53	18.1	55	19.7	56	20.8	59	18.3	65	17.6	37	2.8	54.2	97.3
	3.4	50	17.5	55	19.7	57	21.2	57	17.8	63	17	38	2.8	53.3	96.0

May, June, July : time interval used 7AM-7PM

August: 9AM-7PM

Sept. 10AM-7PM

Oct. 1.-12. 10 AM-4PM

Avg ambient [O3] 34.6 ppb

Avg treatment [O3] 54.5 ppb

FACTS 2 [O3] 1999 season, Harshaw, WI (144 days)

	May		June		July		Aug.		Sept.		1999 Season	
	Mean	Sum	Mean	Sum	Mean	Sum	Mean	Sum	Mean	Sum	Mean	Sum
	ppb	ppm*h	ppb	ppm*h	ppb	ppm*h	ppb	ppm*h	ppb	ppm*h	ppb	ppm*h
Ambient Office	44	11.7	41	14.9	38	14	31.5	11.7	30	10.5	36.9	62.8
Ring 1.3	55	14.6	60.2	21.7	55	20.4	47	17.6	43.4	15.6	52.1	89.9
1.4	56	14.8	60.9	21.9	51	18.8	49	18.2	42.3	15.2	51.8	88.7
2.3	57	15.1	60.9	21.9	55	20.5	47	17.6	42	15.1	52.4	90.2
2.4	56	14.8	60.5	21.8	56	21	49	18.1	42.2	15.2	52.7	90.9
3.3	55	14.6	58.6	21.1	44	16.4	45	16.8	40.9	14.7	48.7	83.6
3.4	55	14.6	60.8	21.9	56	20.8	49	18.1	41.6	15	52.5	90.4

Time interval used 7AM-7PM

Avg treatment [O3] 51.7 ppb

FACTS 2 [O3] 2000 season, Harshaw, WI (145 days)

		May (16days)		June		July		Aug.		Sept.		2000 Season	
		Mean ppb	Sum ppm*h	Mean ppb	Sum ppm*h	Mean ppb	Sum ppm*h	Mean ppb	Sum ppm*h	Mean ppb	Sum ppm*h	Mean ppb	Sum ppm*h
Ambient	Office	44±8	8.45	37±10	13.32	34±10	12.65	33±9	12.27	32±16	11.52	36.0	58.2
	E. fence	41±9	7.87	33±10	11.88	31±9	11.53	31±10	11.53	31±17	11.16	33.4	54.0
	S. fence	43±9	8.26	33±9	11.88	32±9	11.9	32±10	11.9	31±17	11.16	34.2	55.1
Ring	1.3	49±16	9.41	48±19	17.28	46±18	17.11	53±24	19.72	46±24	16.56	48.4	80.1
	1.4	51±15	9.79	49±20	17.64	50±24	18.6	54±24	20.09	47±24	16.92	50.2	83.0
	2.3	43±16	8.26	49±18	17.64	47±17	17.48	52±24	19.34	46±24	16.56	47.4	79.3
	2.4	49±16	9.41	47±19	16.92	46±17	17.11	51±24	18.97	45±24	16.2	47.6	78.6
	3.3	45±16	8.64	46±19	16.56	45±17	16.74	52±23	19.34	44±24	15.84	46.4	77.1
	3.4	49±15	9.41	49±19	17.64	46±17	17.48	54±23	20.09	46±25	16.56	48.8	81.2

Time interval used 7AM-7PM

Avg ambient [O3] 34.5 ppb

Avg treatment [O3] 48.1 ppb

FACTS 2 [O3] 2001 season(146 days), Harshaw, WI

		May (21days)		June		July		Aug.		Sept.		2001 Season	
		Mean ppb	Sum ppm*h	Mean ppb	Sum ppm*h	Mean ppb	Sum ppm*h	Mean ppb	Sum ppm*h	Mean ppb	Sum ppm*h	Mean ppb	Sum ppm*h
Ambient	Office	45±11	11.4	41±12	14.8	41±12	15.3	35±10	13	32±10	11.5	38.8±12	66.1
	E. fence	36±11	9.07	41±13	14.8	36±11	13.4	32±10	9.95	29±10	10.4	34.4±12	57.1
	S. fence	42±10	10.6	42±12	15.1	34±11	12.7						
Ring	1.3	55±22	13.9	59±24	21.2	60±25	22.3	49±21	18.2	35±21	12.6	51.6±23	88.2
	1.4	56±21	14.1	61±24	22	61±22	22.7	51±20	19	39±21	14	53.6±22	91.8
	2.3	54±20	13.6	62±23	22.3	61±24	22.7	50±20	18.6	39±19	14	53.2±22	91.4
	2.4	56±21	14.1	60±23	21.6	63±31	23.4	48±26	17.9	40±20	14.4	53.4±23	91.4
	3.3	47±31	11.8	63±32	22.7	62±29	23.1	53±38	19.7	34±15	12.2	51.8±32	89.5
	3.4	57±24	14.4	61±23	22	60±23	22.3	51±25	19	39±25	14	53.6±24	91.7

Time: 7 AM - 7 PM

Avg ambient [O3] 36.6±12 ppb

Avg treatment [O3] 52.8±24 ppb

Treatment 1.44x above ambient

FACTS 2 [O3] 2002 season(138 days)

	May (4 days)		June		July		Aug.		Sept.		Oct. (11days)		2002 Season	
	Mean ppb	Sum ppm*h	Mean ppb	Sum ppm*h	Mean ppb	Sum ppm*h	Mean ppb	Sum ppm*h	Mean ppb	Sum ppm*h	Mean ppb	Sum ppm*h	Mean ppb	Sum ppm*h
Amb. Office	53±10	2.5±0.5	38±12	13.7±4.3	34±12	12.6±4.4	30±13	10.8±4.7	30±13	10.8±4.7	21±9	2.8±1.2	33±4	54.3±6.6
E. fence	53±10	2.5±0.5	33±10	11.9±3.6	29±10	10.8±3.7	27±11	10±4.1	25±11	7.5±4	20±9	2.6±1.2	28±11	46±18.1
S. fence	49±11	2.4±0.5	37±12	13.3±4.3	32±12	11.9±4.4	31±12	11.5±4.4	31±13	11.1±4.7	23±9	3±1.2	31±13	51±21.4
N. fence	n/a		n/a		33±11	12.3±4.1	31±12	11.5±4.4	31±13	11.1±4.7	23±9	3±1.2	31±13	51±21.4
Ring 1.3	62±25	3±1.2	53±22	19.1±7.9	55±22	20.5±8.2	53±25	19.7±9.3	42±26	15.1±9.4	21±9	2.8±1.2	49±25	80.6±41.1
1.4	64±24	3.1±1.2	55±23	19.8±8.3	54±23	20.1±8.6	52±24	19.3±8.9	43±25	15.5±9	23±8	3±1.1	50±24	82.2±39.5
2.3	60±24	2.9±1.2	54±22	19.4±7.9	54±22	20.1±8.2	52±25	19.3±9.3	43±25	15.5±9	24±9	3.2±1.2	49±24	80.6±39.5
2.4	60±24	2.9±1.2	54±22	19.4±7.9	55±22	20.5±8.2	52±24	19.3±8.9	42±25	15.1±9	23±8	3±1.1	49±24	80.6±39.5
3.3	59±24	2.8±1.2	54±22	19.4±7.9	54±23	20.1±8.6	51±25	19±9.3	42±25	15.1±9	24±8	3.2±1.1	49±24	80.6±39.5
3.4	56±24	2.7±1.2	52±23	18.7±8.3	53±23	19.7±8.6	51±25	19±9.3	41±25	14.8±9	24±9	3.2±1.2	48±24	79.9±39.5

Time: 7 AM - 7 PM

Avg ambient [O3] 33±14 ppb
 Avg treatment [O3] 49±24 ppb
 Treatment 1.48x above ambient

FACTS 2 [O3] 2003 season(145 days)

	May (11 days)		June		July		Aug.		Sept.		Oct. (11days)		2003 Season	
	Mean ppb	Sum ppm*h	Mean ppb	Sum ppm*h	Mean ppb	Sum ppm*h	Mean ppb	Sum ppm*h	Mean ppb	Sum ppm*h	Mean ppb	Sum ppm*h	Mean ppb	Sum ppm*h
Amb. Office	44±8	5.2	44±10	14.3	37±10	12.4	37±12	12.4	35±16	11.5	35±13	4.6	38±13	60.4
E. fence	43±8	5.1	41±11	13.5	34±10	11.5	35±11	11.7	35±12	11.5	35±12	4.6	37±12	57.9
S. fence	47±11	5.6	43±14	14.2	37±12	12.6	36±13	12.4	37±18	11.9	39±16	5	39±15	61.4
N. fence	44±8	5.2	43±11	14.1	37±10	12.4	37±12	12.6	38±17	12.5	38±13	5	39±13	61.9
Ring 1.3	63±19	7.5	59±22	19.3	50±19	17.1	51±21	17.4	44±23	14.4	40±17	5.2	51±22	80.9
1.4	64±18	7.7	60±20	19.8	50±19	17	51±21	17.2	44±24	14.5	39±17	5.1	51±22	81.2
2.3	63±20	7.5	59±23	19.2	50±19	16.7	51±21	17.2	43±25	14.1	39±17	5	51±23	79.8
2.4	63±18	7.6	60±21	19.5	50±18	16.9	51±20	17.3	44±24	14.4	39±17	5.1	51±22	80.9
3.3	62±20	7.5	58±23	19.1	50±18	16.8	50±21	17.1	45±24	14.7	40±17	5.1	51±22	80.3
3.4	63±18	7.5	59±21	19.3	49±19	16.7	51±20	17.3	44±23	14.4	40±17	5.2	51±21	80.5

Time: 7 AM - 7 PM

Avg ambient [O3] 38±13 ppb

Avg treatment [O3] 51±22 ppb

Treatment 1.34 x above ambient

FACTS 2 [O3] 2004 season, 150 days, Daytime

	May (10 days)		June		July		Aug.		Sept.		Oct. (17days)		Season	
	Mean ppb	Sum ppm*h	Mean ppb	Sum ppm*h	Mean ppb	Sum ppm*h	Mean ppb	Sum ppm*h	Mean ppb	Sum ppm*h	Mean ppb	Sum ppm*h	Mean ppb	Sum ppm*h
Office	39.3±5	6.7	33.1±4.1	16	33.6±5.1	16.6	29.3±3.7	13	41.3±6	15.9	32.7±2.3	6.5	34.9	74.7
E. fence	32±6.9	5.5	32±11.5	15.5	32±12.5	15.6	27±10.3	12.1	40±16.3	15.5	32±11.6	6.3	32.5	70.5
S. fence	37±13.1	6.4	36±16.4	17.5	38±17.1	18.5	32±15.1	14.4	40±18.5	15.5	34±15	6.7	36.2	79.0
N. fence	35±8.7	6	35±11.8	17	35±13.1	17.1	30±10	13.5	41±16.6	15.9	34±11.9	6.7	35.0	76.2
1.3	40.6±12.9	7	50.1±20.2	24.3	42.2±21	20.5	39±19.5	17.5	46.8±18.9	18.2	33.8±13.8	6.7	41.7	94.2
1.4	36.7±13.7	6.3	46±22.4	22.3	42.4±20.6	20.7	39±20.8	17.5	45.7±19.8	17.7	33.3±14.7	6.6	40.2	91.1
2.3	37.3±13.6	6.4	47.7±22.2	23.1	43.2±20.3	21.1	38.7±20.6	17.4	46±19.6	17.9	33.1±13.8	6.5	40.7	92.4
2.4	38±13.7	6.5	46.8±21.2	22.7	43.7±19.7	21.3	38.8±19.7	17.4	47.3±19.8	18.4	29.4±14.9	5.8	40.2	92.1
3.3	37±13.7	6.4	47.9±22.7	23.2	43.5±20.6	21.2	38.8±21	17.4	46.5±20.3	18.1	33.5±14.8	6.6	40.7	92.9
3.4	37.6±13.6	6.5	46.2±21.4	22.4	43±19.1	21	37.9±18.9	17	47±19.5	18.2	33.4±13.7	6.6	40.5	91.7

Avg ambient [O3]

34.6 ppb

Avg treatment [O3]

40.6 ppb

Treatment 1.2 x above ambient

FACTS 2 [O3] 2005 season, 143 days, Daytime

	May (9 days)		June		July		Aug.		Sept.		Oct. (12days)		Season	
	Mean ppb	Sum ppm*h	Mean ppb	Sum ppm*h	Mean ppb	Sum ppm*h	Mean ppb	Sum ppm*h	Mean ppb	Sum ppm*h	Mean ppb	Sum ppm*h	Mean ppb	Sum ppm*h
Amb. Office	34.6±10.8	4.7	42.7±14.5	20.7	38.8±16.1	18.6	35.3±14.2	15.8	36.8±15.8	14.3	29.6±12.4	4.2	36.3	78.3
E. fence	34.3±11.2	4.6	40±15	19.4	35.7±15.4	17.3	32.9±13.6	14.8	34.5±16.9	13.5	25.8±13.7	3.7	33.3	73.3
S. fence	35.8±12.3	4.9	38.9±15.1	18.9	35.4±15.7	16.8	32.5±13.7	14.3	33.8±16.3	13.1	26.9±12.4	3.8	33.2	71.8
N. fence	32.6±11.2	4.5	39.4±15.5	18.9	37.7±16.5	18.3	34.5±15.1	15.2	35.2±18.7	13.6	26.2±13	3.7	33.8	74.2
														Avg 74.4
Ring 1.3	42.1±22.9	5.7	52.6±21.3	25.5	52.5±23.4	25.2	49.4±24.7	22.1	48.6±26.7	18.9	34.4±22.3	4.9	46.2	102.3
1.4	47.4±23	6.5	53.3±22.1	25.8	53±24.8	25.5	50.4±23.4	22.5	49.8±25.7	19.3	33.2±47.2	4.7	47.5	104.3
2.3	44±21.7	6	51.2±21.1	24.7	51.3±24.7	24.8	48.4±23.1	21.7	47.5±25	18.4	34.6±20.9	4.9	45.8	100.5
2.4	43.4±25.2	5.9	54.6±20.4	26.3	54.1±23.6	26.1	51±21.9	22.9	49.5±25	19.2	35.3±21.6	5	47.7	105.4
3.3	46±21.9	6.3	53.1±21.3	25.7	52.5±24.1	25.2	50±23.4	22.4	48.9±25.9	18.8	35.1±20.6	5	47.3	103.4
3.4	45.6±21.6	6.2	51±21.6	24.7	51.6±24.1	24.8	49±22.2	21.9	46.8±25.5	18	32.7±21.1	4.6	45.7	100.2
														Avg 102.5

Avg ambient [O3]
Avg treatment [O3]
Treatment 1.38x above ambient

34.2 ppb
46.7 ppb

8/8/2007 Redone with Sum00 numbers from 7am to 7pm with no conditions
 Redone with Treatment means numbers from 7am to 7pm with no conditions

FACTS 2 [O3] 2006 Season 139 days 7am - 7pm

		May 9 Days		June		July		August		September		Season	
		Mean	Sum	Mean	Sum	Mean	Sum	Mean	Sum	Mean	Sum	Mean	Sum
		ppb	ppm*h	ppb	ppm*h	ppb	ppm*h	ppb	ppm*h	ppb	ppm*h	ppb	ppm*h
Ambient	Office	45±8	3.21	45±11	12.55	42±21	14.56	34±10	12.8	29±17	10.5	39	53.62
	North Fend	45±8	3.15	38±11	13.68	38±15	14.01	28±9	10.27	27±8	8.78	35.2	49.89
										Avg		37.1	
Ring	1.3	53±14	3.71	51±16	18.35	49±16	17.91	41±18	15.32	32±15	11.52	45.43	66.81
	1.4	53±15	3.73	51±17	18.42	50±18	18.21	41±17	15.36	32±15	11.59	45.73	67.31
	2.3	51±14	3.57	51±17	18.03	47±17	17.16	41±19	15.25	30±12	10.65	44.02	64.66
	2.4	51±14	3.54	51±17	18.13	48±17	17.74	40±16	14.93	33±16	11.65	44.52	65.99
	3.3	53±15	3.69	50±23	17.89	48±31	17.7	42±55	15.74	31±17	11.2	45.18	66.22
	3.4	51±15	3.55	50±17	18.05	49±18	18.06	41±18	15.26	31±17	11.3	44.68	66.22
										Avg		44.93	

Avg Ambient [O3] 37.1
 Avg Treatment [O3] 44.93
 Treatment 1.21 x above ambient

FACTS 2 [O3] 2007 Season 114 days 7am - 7pm

		May 3 Days		June		July		August		September		Season	
		Mean	Sum	Mean	Sum	Mean	Sum	Mean	Sum	Mean	Sum	Mean	Sum
		ppb	ppm*h	ppb	ppm*h	ppb	ppm*h	ppb	ppm*h	ppb	ppm*h	ppb	ppm*h
Ambient	Office	48±11	2.31	45±14	16.03	34±8.4	12.43	34±10	12.39	32±12	6.93	38.97	50.09
	North Fence												
	East Fence												
	South Fence												
Ring	1.3	57±19	2.71	50±23	17.67	39±15	14.09	42±20	15.70	37±18	8.28	44.95	58.45
	1.4	57±20	2.72	50±23	17.76	39±15	14.14	42±19	15.66	37±19	8.28	45.03	58.56
	2.3	57±19	2.71	50±22	17.76	39±15	14.15	43±19	15.73	37±19	8.29	45.06	58.64
	2.4	56±19	2.70	50±21	17.72	39±15	14.12	42±21	15.63	38±19	8.34	44.96	58.51
	3.3	56±19	2.68	50±23	17.74	39±15	14.18	43±20	15.80	38±20	8.34	45.04	58.74
	3.4	57±20	2.71	50±22	17.75	39±15	14.05	42±18	15.62	37±19	8.25	44.88	58.38
											Avg	45.02	

Avg Ambient [O3] 38.97

Avg Treatment [O3] 45.02

Treatment 1.155 x ambient

FACTS 2 [O3] 2008 Season days 7am - 7pm

		May 9 Days		June		July		August		September		October		Season	
		Mean	Sum	Mean	Sum	Mean	Sum	Mean	Sum	Mean	Sum	Mean	Sum	Mean	Sum
		ppb	ppm*h	ppb	ppm*h	ppb	ppm*h	ppb	ppm*h	ppb	ppm*h	ppb	ppm*h	ppb	ppm*h
Ambient	Office	41±6.8	4.44	39±8.4	14.08	36±8.1	12.89	34±9.7	13.68	30±16	10.94	28±7.6	2.79	34.67	58.82
	North Fence	38±7.2	4.09	38±8.7	13.68	34±8.3	12.26	33±9.7	12.14	29±13	10.35	25±7.4	2.50	32.83	55.02
	South Fence	38±7.4	4.09	37±8.9	13.29	31±9.1	11.40	32±9.7	11.72	28±12	10.04	27±7.3	2.71	32.17	53.25
	East Fence	38±8.3	4.07	37±9.4	13.28	31±8.2	11.20	32±9.7	11.98	28±12	10.04	27±7.3	2.70	32	53.13
Ring	1.3	46±16	4.97	45±19	16.20	44±19	16.13	46±22	16.91	35±21	12.73	27±7.4	2.75	40.50	69.69
	1.4	45±19	4.90	46±19	16.43	45±18	16.10	45±21	16.74	35±21	12.54	26±7.3	2.70	40.33	69.41
	2.3	45±18	4.90	45±20	16.13	42±21	15.40	44±22	16.15	32±21	11.67	26±6.8	2.64	39.00	66.89
	2.4	51±14	5.50	47±16	16.85	46±17	16.72	45±20	16.75	36±19	12.85	28±7.3	2.85	42.17	71.52
	3.3	47±16	5.11	46±19	16.41	44±19	16.13	46±21	16.92	37±20	13.16	30±7.6	3.01	41.67	70.74
	3.4	46±16	5.01	47±23	16.55	45±18	16.41	45±21	16.82	36±20	12.76	28±7.3	2.83	41.17	70.38

Avg Ambient [O3] 32.92

Avg Treatment [O3] 40.80556

Treatment 1.24 x ambient

FACTS 2 [O3] 2009 Season days 7am - 7pm

		May 3 Days		June		July		August		September		October 7 Days	
		Mean	Sum	Mean	Sum	Mean	Sum	Mean	Sum	Mean	Sum	Mean	Sum
		ppb	ppm*h	ppb	ppm*h	ppb	ppm*h	ppb	ppm*h	ppb	ppm*h	ppb	ppm*h
Ambient	Office	42±8.6	9.44	39±12	13.9	29±9.4	10.87	33±9.3	10.77	37±11	12.94	22±7.6	1.56
	North Fence	40±8.8	8.9	38±12.5	13.68	29±9.8	10.6	35±11	11.4	39±12	13.87	24±8.6	1.75
	South Fence	40±8.5	9.06	37±12.5	13.3	31±9.9	11.5	31±6.6	3.4				
	East Fence	42±9.1	9.54	37±11.45	13.32	30±10	11.1	31±5.3	3.4				
Ring	1.3	40±12.4	8.95	49±25	17.42	32±11	11.9	36±11	12.12	40±13	14.7	23±9.3	1.7
	1.4	43±11	9.60	49±25	17.51	33±12.6	12.3	35±9.3	11.40	39±11	13.6	24±7.6	1.7
	2.3	42±12	9.40	39±15	14.1	29±9.8	10.7						
	2.4	43±11	9.60	40±16	14.2	29±9.6	10.8						
	3.3	43±11.5	9.60	49±27	17.5	37±18	13.84						
	3.4	47.6±11.7	10.60	49±25	17.5	35±15.5	12.86						

Shut Down *North Rep was monitored until October 7, 2009 Ozone Fumigation began May 28, 2009

Rings	Date
1.3*	27-Jun-09
1.4*	6-Jul-09
2.3	9-Jun-09
2.4	13-Jun-09
3.3	22-Jul-09
3.4	15-Jul-09

Month			
June	Treatment	1.25641	X Ambient
July	Treatment	1.275862	X Ambient