Ozone Season Summary

2008

Sunil Kumar

MWAQC Meeting, COG

July 23, 2008

Ozone Season Summary (2008)

Peak 8-Hour Ozone Concentrations (ppb)

MAY

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
				1	2	3
				59	72	57
4	5	6	7	8	9	10
58	61	74	75	57	38	48
11	12	13	14	15	16	17
48	45	53	57	59	49	58
18	19	20	21	22	23	24
51	44	41	51	47	41	49
25	26	27	28	29	30	31
56	66	51	50	68	74	44

JUNE

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
1	2	3	4	5	6	7
57	60	67	50	82	71	81
8	9	10	11	12	13	14
54	73	85	74	102	94	74
15	16	17	18	19	20	21
60	57	57	50	52	60	80
22	23	24	25	26	27	28
67	66	56	66	72	62	54
29	30					
53	49					

JULY

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
		1	2	3	4	5
		50	64	74	64	58
6	7	8	9	10	11	12
52	61	72	40	64	75	76
13	14	15	16	17	18	19
69	64	85	92	104	97	66
20	21	22	23	24	25	26
69						

*** 2008 data is draft and subject to change.**

Ozone Season Summary (2008)

8-Hour Ozone Exceedance Days

Date	# of Monitors Exceeding	Highest Monitor	Highest Concentration (ppb)
6/5/08	1	Annandale	82
6/7/08	1	Prince George's EC	81
6/10/08	5	Rockville	85
6/12/08	**13**	**Lewinsville**	**102**
6/13/08	11	Rockville	94
6/21/08	5	Beltsville	80
7/12/08	1	Fredrick	76
7/15/08	4	Mt. Vernon	85
7/16/08	12	Mt. Vernon	92
7/17/08	**15**	**Arlington**	**104**
7/18/08	**13**	**Beltsville**	**97**

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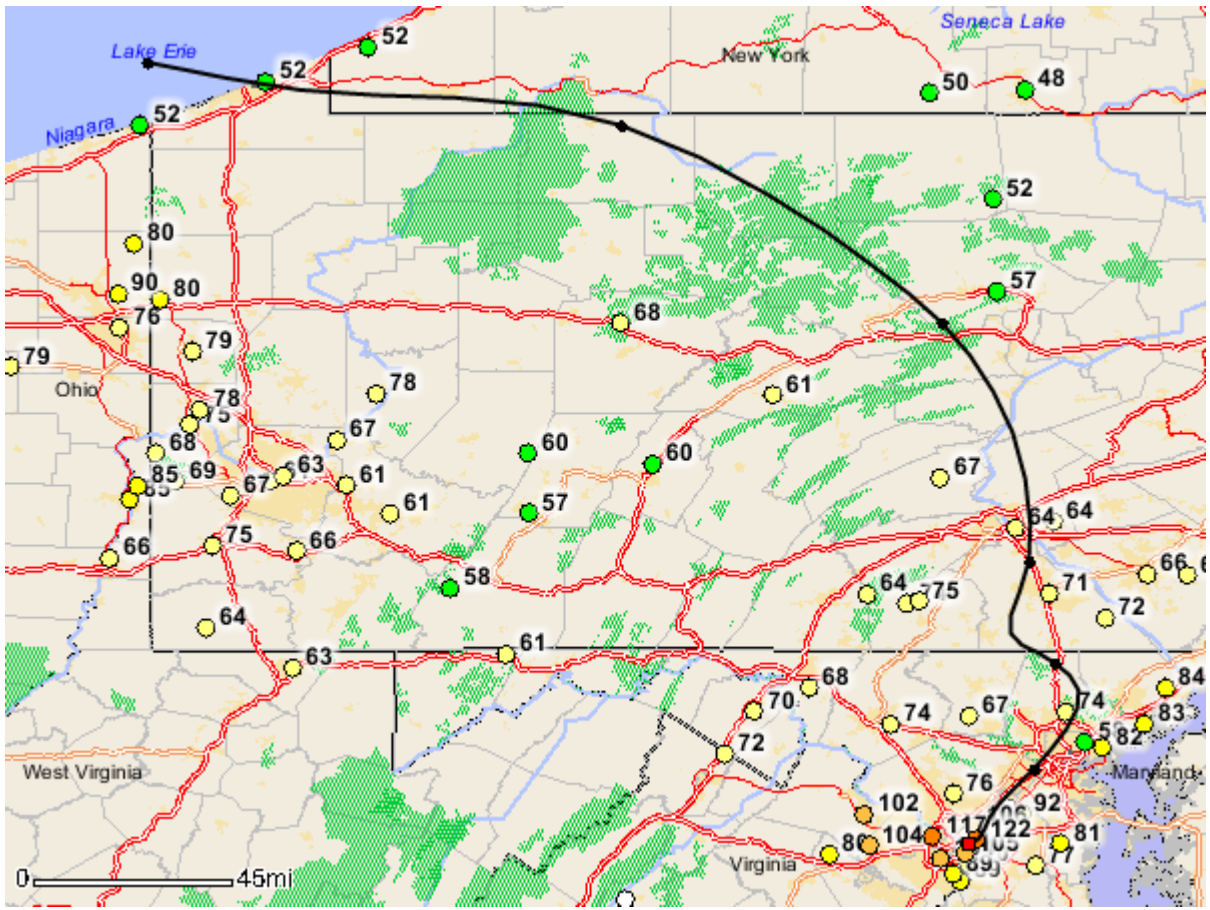
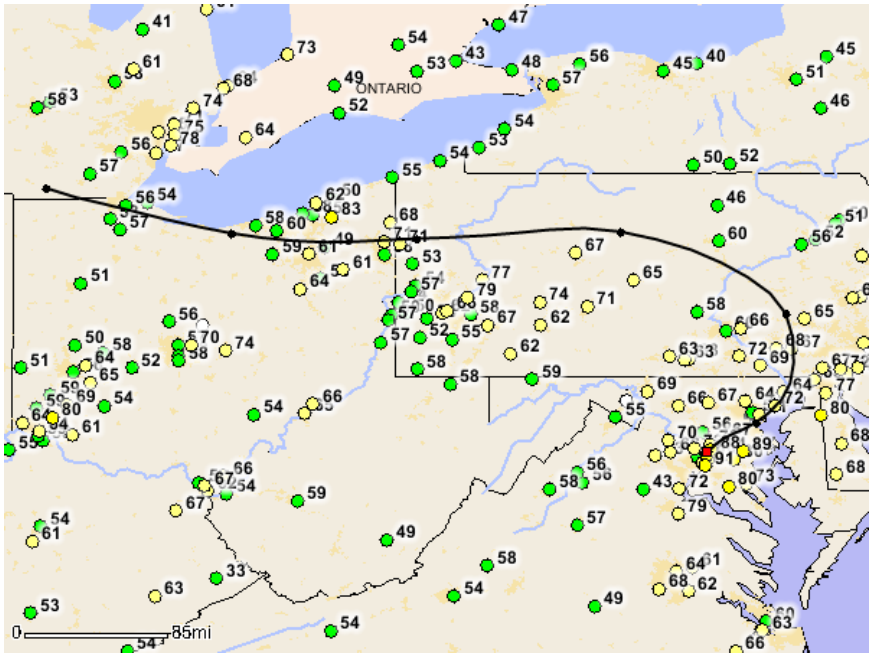
Wind Trajectories (Code Red Days)

NOAA HYPLIT MODEL
36-Hour Backward Trajectory ending at 3 PM June 12, 2008
EDAS Meteorological Data

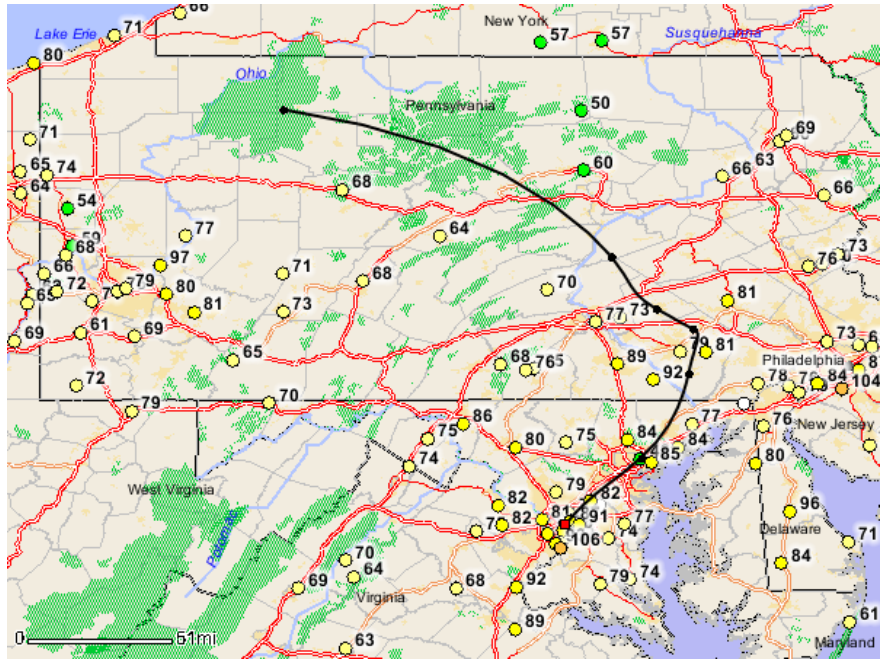


Wind Trajectories (Code Orange Days)

NOAA HYPLIT MODEL
36-Hour Backward Trajectory ending at 3 PM July 15, 2008
EDAS Meteorological Data

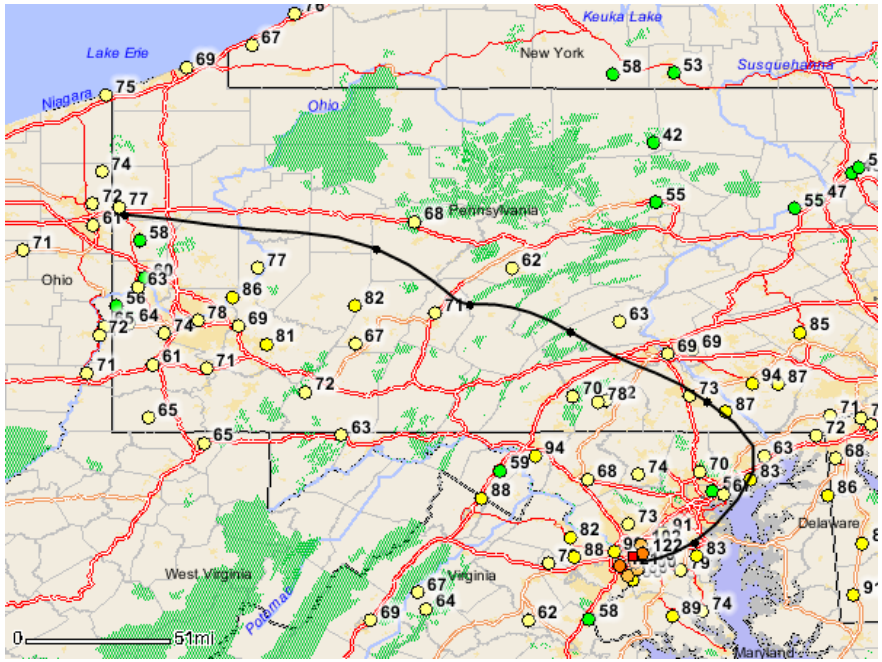


NOAA HYPLIT MODEL
36-Hour Backward Trajectory ending at 3 PM July 16, 2008
EDAS Meteorological Data

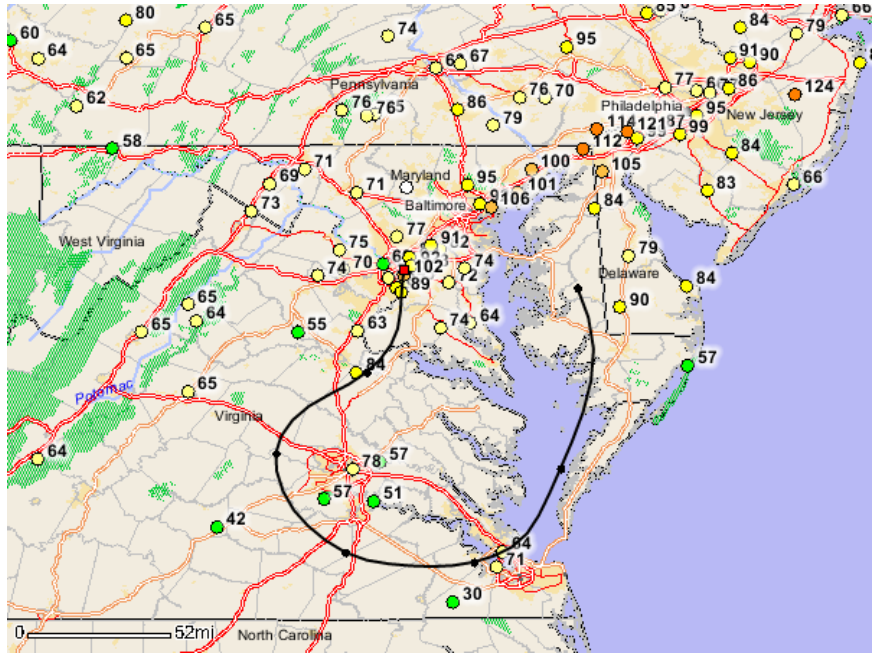


Wind Trajectories (Code Red Days)

NOAA HYPLIT MODEL
Backward Trajectory ending at 3 PM July 17, 2008
EDAS Meteorological Data



NOAA HYPLIT MODEL
Backward Trajectory ending at 3 PM July 18 2008
EDAS Meteorological Data



Daily Peak Fine Particle Concentrations (2008)

24-Hour PM2.5 Concentrations (ug/m3)

MAY

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
				1	2	3
				15.4	18.3	21.4
4	5	6	7	8	9	10
13.7	11.4	16.0	19.0	19.2	7.8	5.2
11	12	13	14	15	16	17
7.6	3.9	4.2	8.2	15.8	11.0	8.4
18	19	20	21	22	23	24
10.5	8.2	7.7	8.7	8.0	5.2	5.7
25	26	27	28	29	30	31
7.8	16.0	19.4	6.8	9.6	17.8	18.4

JUNE

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
1	2	3	4	5	6	7
10.6	9.0	16.3	12.9	15.2	34.3	34.2
8	9	10	11	12	13	14
20.6	23.7	27.1	9.4	17.5	28.8	35.8
15	16	17	18	19	20	21
13.0	15.9	12.1	9.0	13.4	14.8	19.3
22	23	24	25	26	27	28
19.7	13.2	11.5	19.1	23.7	19.3	13.5
29	30					
9.7	10.7					

JULY

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
		1	2	3	4	5
		8.3	15.5	20.7	21.6	25.9
6	7	8	9	10	11	12
22.0	15.8	17.2	14.4	15.4	25.2	34.5
13	14	15	16	17	18	19
16.2	13.5	28.4	31.7	34.7	38.2	15.1
20	21	22	23	24	25	26
18.7						
27	28	29	30	31		

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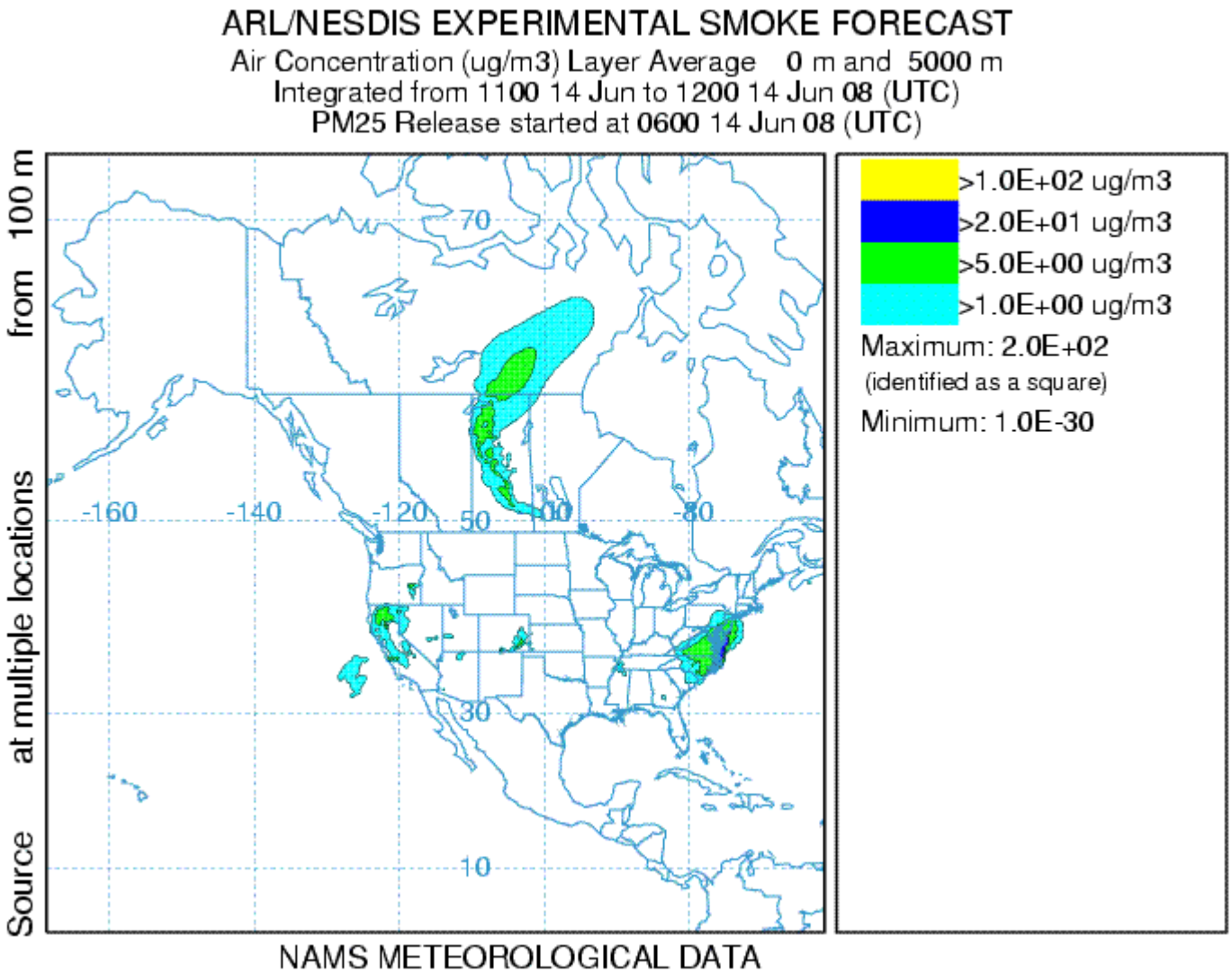
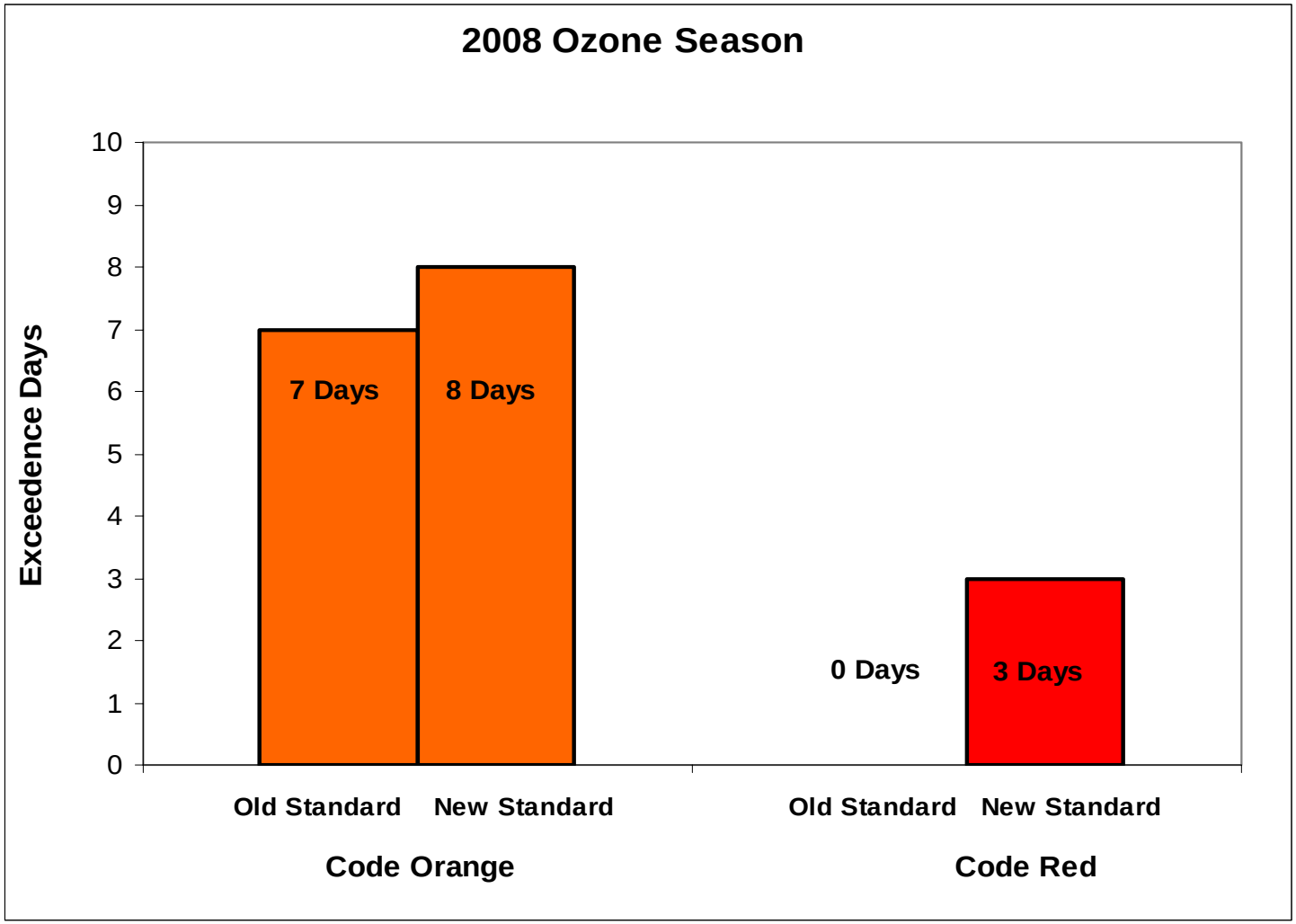
Smoke Trajectory – June 14, 2008

(24-Hour PM2.5 Exceedance Day)



Code Orange & Red Days – Old Vs. New AQI (2008)



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