

Ozone Season Summary 2011

Jen Desimone and Sunil Kumar MWAQC Meeting, COG June 22, 2011



Ozone Season Summary

Peak 8-Hour Ozone Concentrations (ppb)

Data based on the 8-hour standard set at 75 ppb. Since April 15, 2011, there have been:

2 Code Red Days

5 Code Orange Days

15 Code Yellow Days

44 Code Green Days

	April							
Sun	Mon	Tues	Wed	Thurs	Fri	Sat		
		1	2					
3	4	5	6	7	8	9		
10	11	12	13	14	15	16		
					57	46		
17	18	19	20	21	22	23		
53	59	52	60	53	44	36		
24	25	26	27	28	29	30		
45	55	35	32	53	50	44		

. ..

Мау								
Sun	Mon	Tues	Wed	Thurs	Fri	Sat		
1	2	3	4	5	6	7		
39	55	52	40	53	58	55		
8	9	10	11	12	13	14		
56	54	53	65	61	41	35		
15	16	17	18	19	20	21		
48	53	50	45	42	49	60		
22	23	24	25	26	27	28		
59	55	51	75	73	58	49		
29	30	31						
46	76	96						

		,	June	2		
Sun	Mon	Tues	Wed	Thurs	Fri	Sat
			1	2	3	4
			74	72	60	73
5	6	7	8	9	10	11
69	75	76	95	93	100	71
12	13	14	15	16	17	18
63	54	47	59	55	59	76
19	20	21	22	23	24	25
69						

•Analysis is based on draft data until June 20, 2011. Data is subject to change.



2011 Ozone Exceedances (so far)

Date	# of Monitors Exceeding	Highest Monitor	Highest Concentration (ppb)
5/30/2011	1	Calvert County	76
5/31/2011	7	Franconia	96
6/7/2011	1	Beltsville	76
6/8/2011	11	Prince George's Equestrian Center	95
6/9/2011	8	Calvert County	93
6/10/2011	9	Alexandria and Aurora Hills	100
6/18/2011	1	Prince George's Equestrian Center	76

* Analysis is based on draft data until June 20, 2011. Data is subject to change.



Bermuda Highs southwest of the Mid-Atlantic advected hot and humid air into the Metropolitan Washington Area.

The Bermuda Highs limited cloud coverage and allowed for record to near record high temperatures for each day.

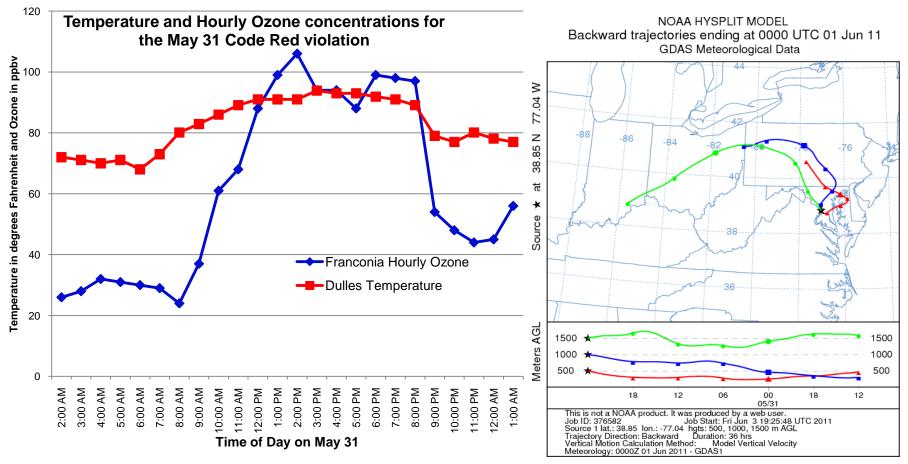
Wind trajectories helped transport emissions from the Ohio River Valley into the Metropolitan Washington Area.

All three factors above led to conditions favorable for high ozone levels.



May 31st Code Red

of Monitors in Exceedance: 71 Monitor in Code Red (Franconia, VA)Maximum 8-Hour Ozone: 96 ppb (Franconia, VA)

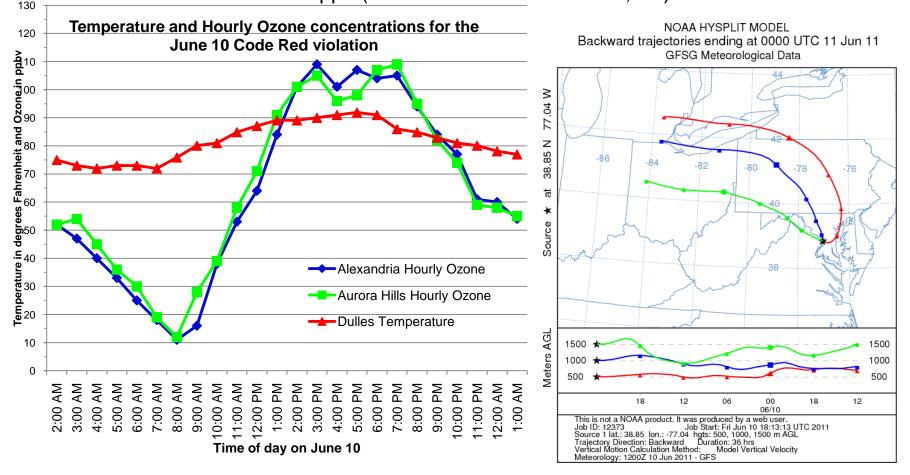




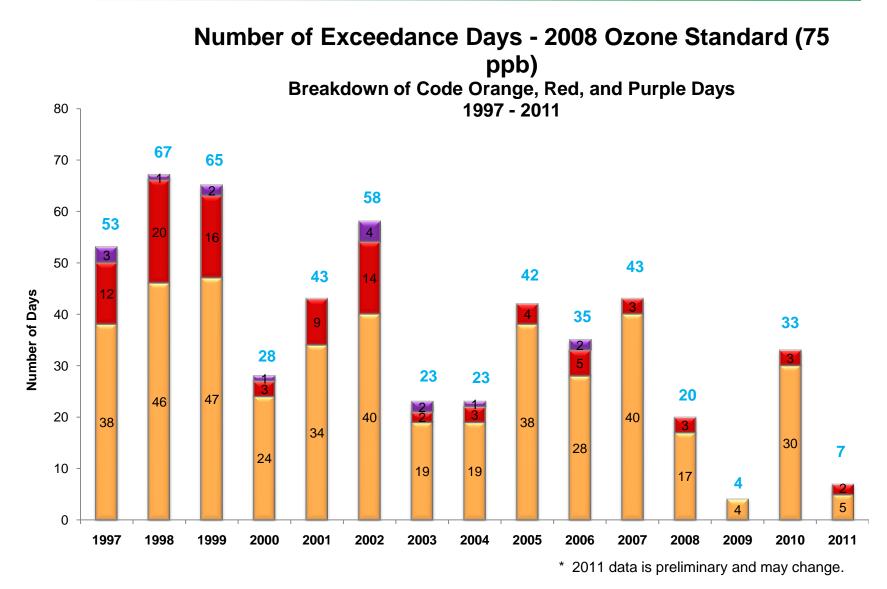
June 10th Code Red

of Monitors in Exceedance: 9

4 Monitors in Code Red (Alexandria, Aurora Hills, Franconia and Southern Maryland) Maximum 8-Hour Ozone: 100 ppb (Alexandria and Aurora Hills, VA)







* 2011 analysis is based on draft data as of June 20, 2011 and is subject to change.



Fine Particle Summary

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

Data based on the 24-hour standard set at 35.5 ug/m3. Since April 15, 2011, there have/has been:

18 Code Yellow Days

48 Code Green Days

April							
Sun	Mon	Tues	Wed	Thurs	Fri	Sat	
		1	2				
3	4	5	6	7	8	9	
10	11	12	13	14	15	16	
					11.3	7.3	
17	18	19	20	21	22	23	
6.3	12.8	17.3	13.8	8.3	7.7	8.7	
24	25	26	27	28	29	30	
14.1	13.9	8.9	8.2	10.4	7.8	6.7	

Мау								
Sun	Mon	Tues	Wed	Thurs	Fri	Sat		
1	2	3	4	5	6	7		
9.7	1 2.0	14.1	6.1	7.8	10.1	10.4		
8	9	10	11	12	13	14		
12.2	9.1	8.0	9.6	14.5	15.1	10.2		
15	16	17	18	19	20	21		
9.8	11.8	10.7	9.2	8.4	14.4	10.3		
22	23	24	25	26	27	28		
15.3	20.5	16.1	17.5	24.4	15.2	9.1		
29	30	31						
14.2	23.8	31.8						

June							
Sun	Mon	Tues	Wed	Thurs	Fri	Sat	
			1	2	3	4	
			33.3	9.5	6.5	12.2	
5	6	7	8	9	10	11	
18.1	19.0	21.8	28.8	31.5	30.7	25.5	
12	13	14	15	16	17	18	
16.0	7.6	8.3	7.3	15.5	10.5	12.6	
19	20	21	22	23	24	25	
18.6							



MWCOG:
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Clean Air Partners: <u>http://www.cleanairpartners.net</u>

Sign up for air alerts:

http://www.cleanairpartners.net/airalert.cfm