

Daily Peak Eight-Hour Ozone Concentrations (ppb)

Data through July 25, 2004

Daily Peak 8-Hour Ozone Concentrations (ppb)

May 2004

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
						1
						42
2	3	4	5	6	7	8
38	38	49	57	64	75	54
9	10	11	12	13	14	15
69	80	97	77	68	62	63
16	17	18	19	20	21	22
59	58	55	41	46	55	71
23	24	25	26	27	28	29
71	60	80	62	56	55	60
30	31					
54	41					

Draft

Daily Peak 8-hour Ozone Concentrations (ppb)

JUNE 2004

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
		1	2	3	4	5
		48	62	55	50	52
6	7	8	9	10	11	12
49	64	80	88	68	27	70
13	14	15	16	17	18	19
55	49	59	52	51	60	60
20	21	22	23	24	25	26
56	67	57	48	75	65	60
27	28	29	30			
59	69	58	79			

Draft

Daily Peak 8-Hour Ozone Concentrations (ppb)

JULY 2004

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
				1	2	3
				76	123	109
4	5	6	7	8	9	10
48	54	70	60	59	66	85
11	12	13	14	15	16	17
84	51	67	57	49	58	80
18	19	20	21	22	23	24
59	73	78	99	75	64	45
25	26	27	28	29	30	31
27						

Daily Peak One-Hour Ozone Concentrations (ppb)

Data through July 25, 2004

Daily Peak One-Hour Ozone Concentrations (ppb)

May 2004

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
						1
						52
2	3	4	5	6	7	8
42	43	54	64	71	89	57
9	10	11	12	13	14	15
79	80	118	87	80	72	72
16	17	18	19	20	21	22
66	68	65	52	50	70	87
23	24	25	26	27	28	29
83	69	94	73	65	58	64
30	31					
58	49					

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Daily Peak One-hour Ozone Concentrations (ppb)

JUNE 2004

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
		1	2	3	4	5
		61	74	60	45	55
6	7	8	9	10	11	12
54	83	90	103	75	36	84
13	14	15	16	17	18	19
59	61	71	65	71	73	85
20	21	22	23	24	25	26
63	73	73	56	87	86	66
27	28	29	30			
64	83	62	93			

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Daily Peak One-Hour Ozone Concentrations (ppb)

JULY 2004

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
				1	2	3
				87	140	129
4	5	6	7	8	9	10
62	65	81	77	76	71	98
11	12	13	14	15	16	17
96	64	80	78	51	66	94
18	19	20	21	22	23	24
66	90	89	118	94	78	52
25	26	27	28	29	30	31
39						

Draft

Daily Peak 24-Hour Fine Particle Concentrations (ug/m3)

Data through July 25, 2004

Daily Peak 24-Hour Particle Concentrations (ug/m3)

May 2004

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
						1
						10
2	3	4	5	6	7	8
6	6	7	12	11	17	7
9	10	11	12	13	14	15
17	21	30	24	18	16	13
16	17	18	19	20	21	22
12	15	13	8	9	16	7
23	24	25	26	27	28	29
17	14	16	7	7	9	7
30	31					
14	12					

Draft

Daily Peak 24-hour Particle Concentrations (ug/m3)

JUNE 2004

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
		1	2	3	4	5
		7	6	12	11	5
6	7	8	9	10	11	12
9	21	26	35	18	7	8
13	14	15	16	17	18	19
5	13	19	19	19	18	15
20	21	22	23	24	25	26
3	15	17	12	20	27	16
27	28	29	30			
14	19	10	22			

Draft

Daily Peak 24-Hour Particle Concentrations (ug/m3)

JULY 2004

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
				1	2	3
				29	32	38
4	5	6	7	8	9	10
34	12	17	20	11	20	25
11	12	13	14	15	16	17
41	24	28	21	11	20	29
18	19	20	21	22	23	24
16	24	26	37	38	21	8
25	26	27	28	29	30	31
11						

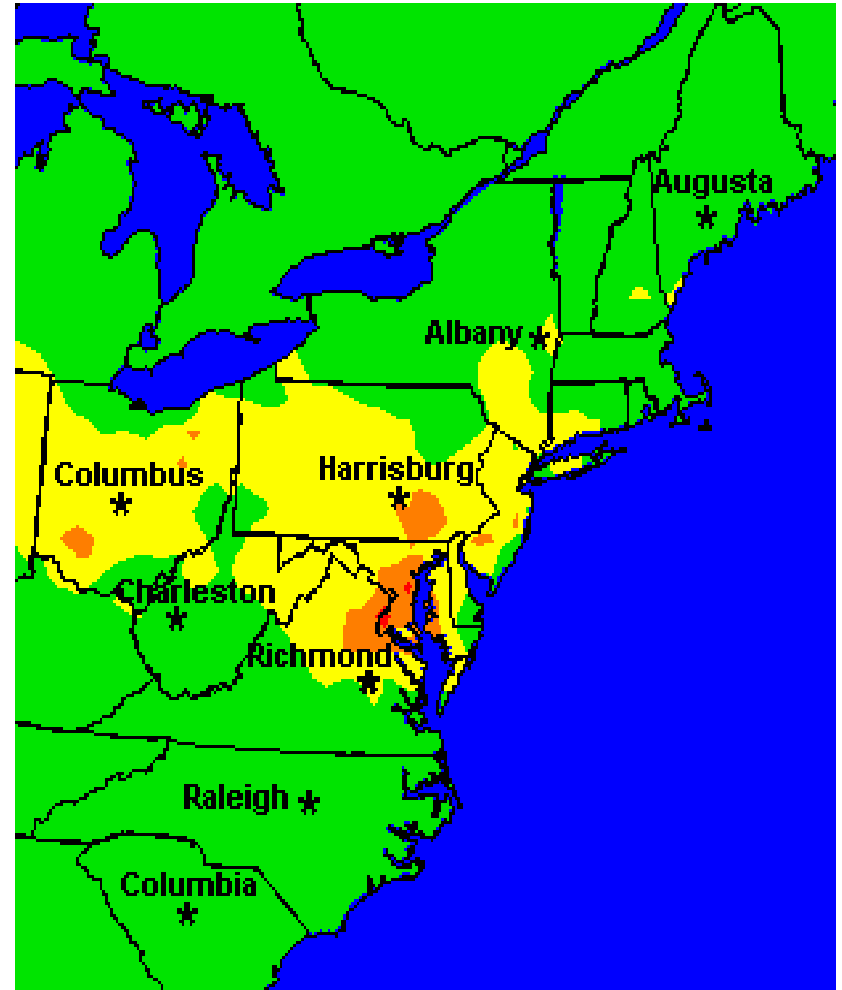
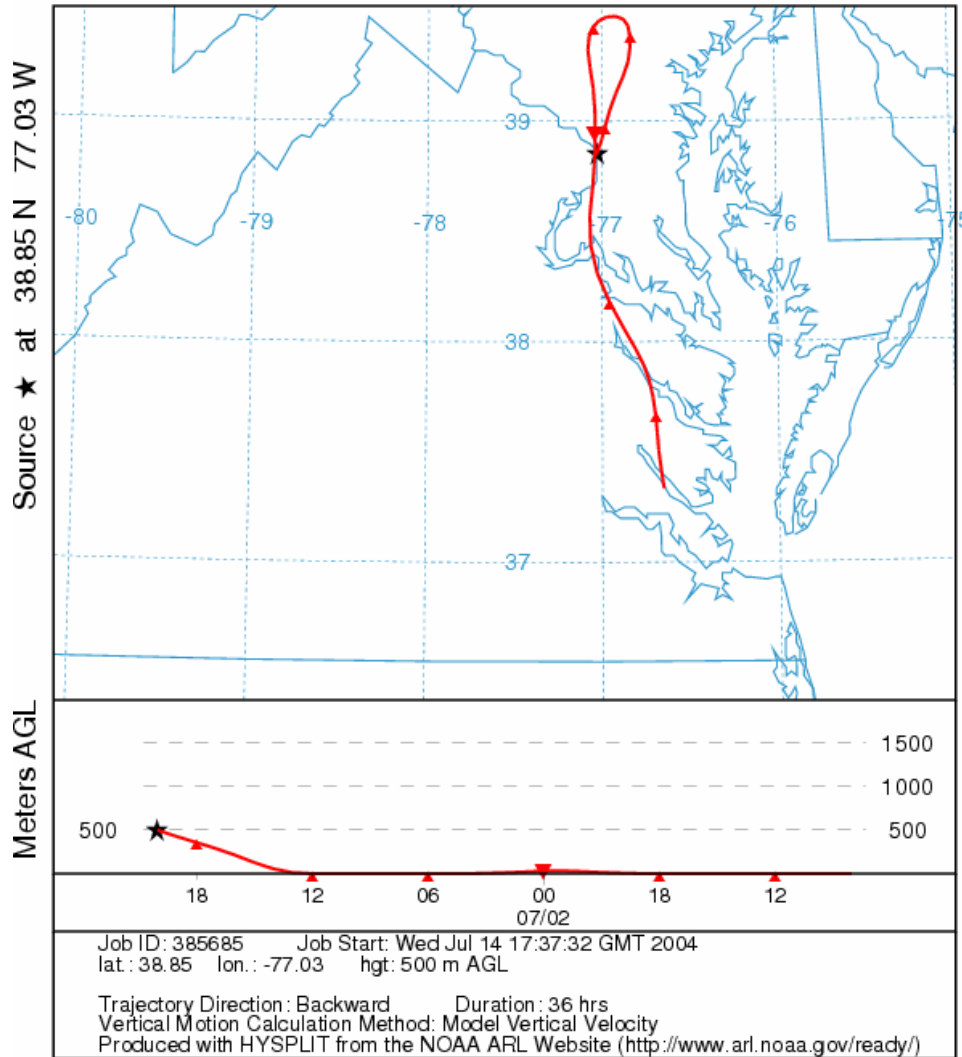
Meteorological Analyses

July 2, 2004 (Code Red Day)

- Formation of a stationary front - High pressure system.
- Prevented formation of cloud cover.
- Light winds accompanied the raise in pressure, notably during peak ozone production hours.
- Little cloud cover and light winds helped build up ozone levels, which remained stagnant.

July 2 2004

NOAA HYSPLIT MODEL
Backward trajectory ending at 20 UTC 02 Jul 04
EDAS Meteorological Data



July 2, 2004

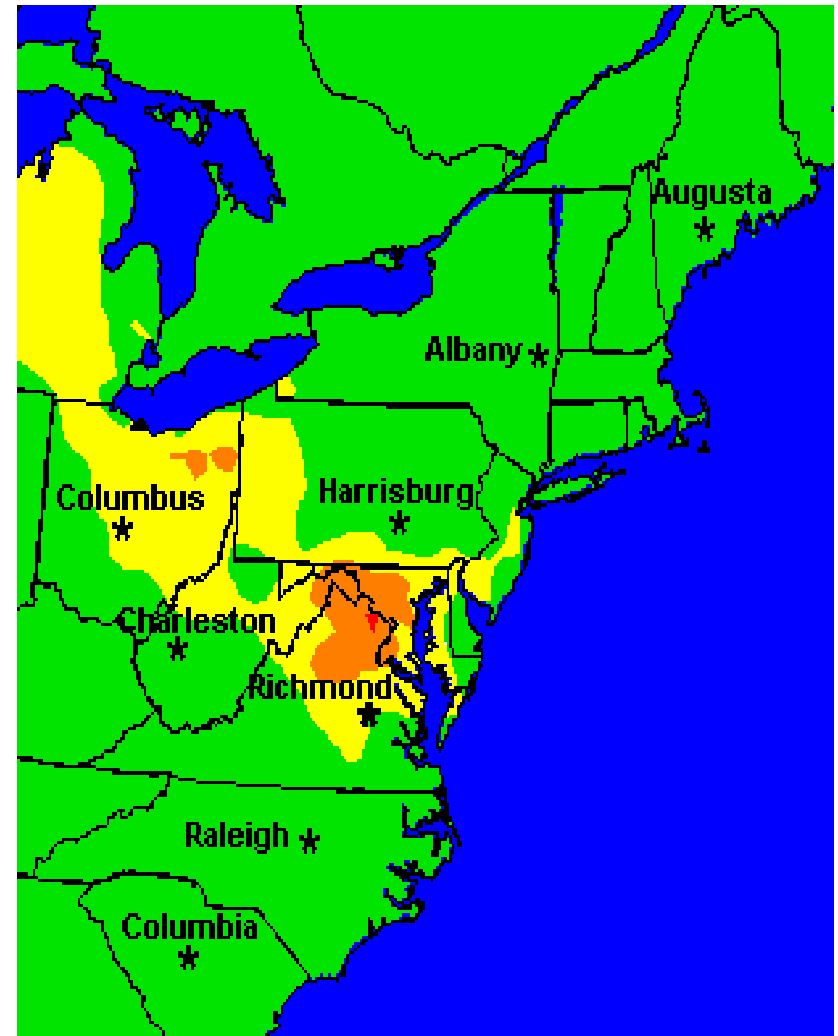
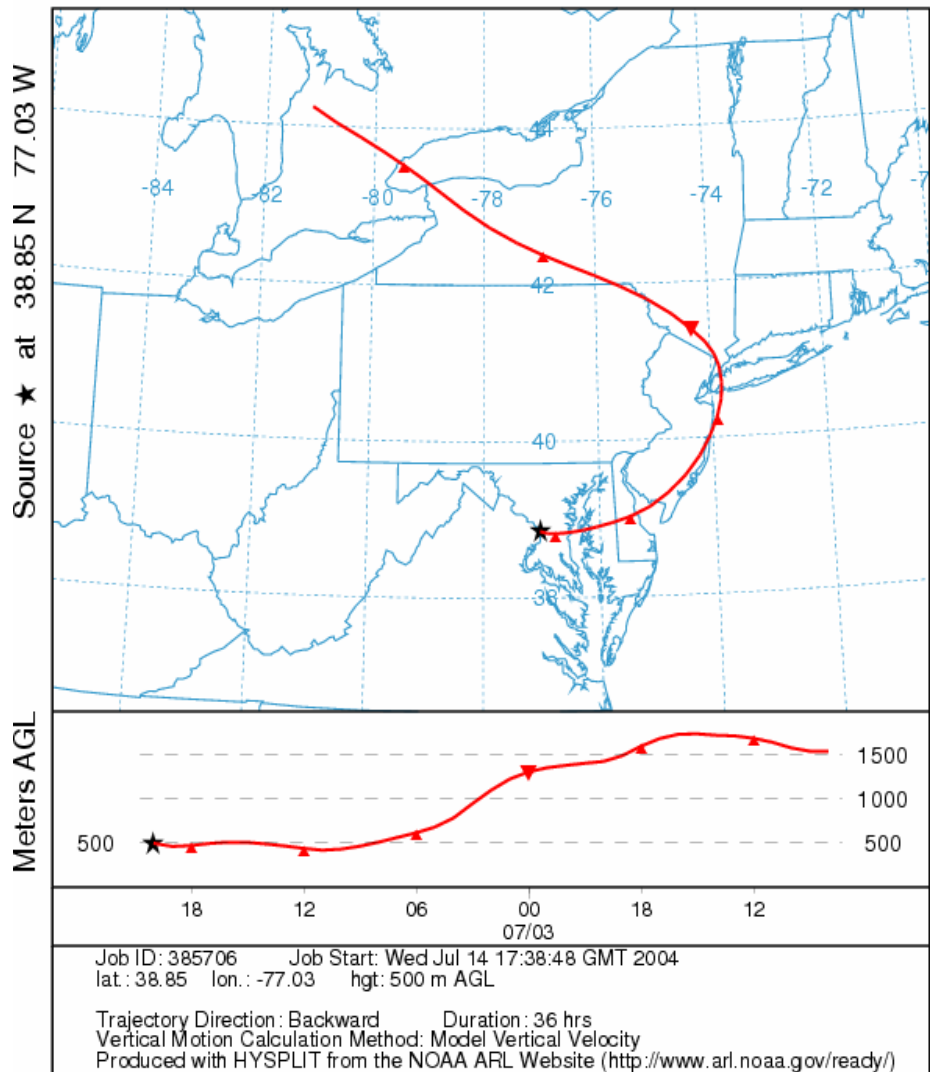
Meteorological Analyses

July 3, 2004 (Code Red Day)

- Stationary front continued.
- Conditions similar to July 2nd were observed - Light winds, no cloud.
- With a hefty regional ozone concentration left over from July 2nd, light afternoon winds, and limited vertical mixing, extreme ozone concentrations were observed.

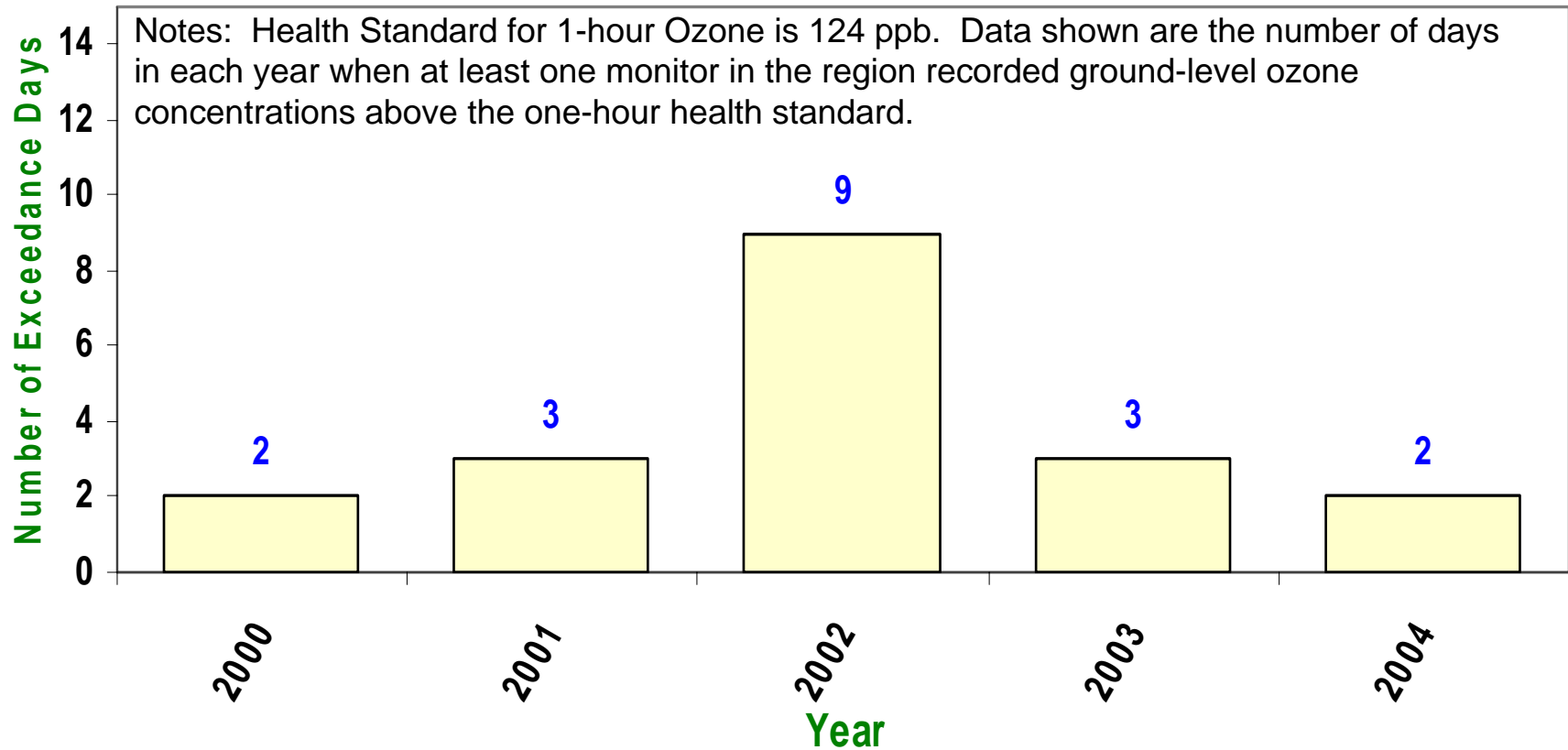
July 3 2004

NOAA HYSPLIT MODEL
Backward trajectory ending at 20 UTC 03 Jul 04
EDAS Meteorological Data



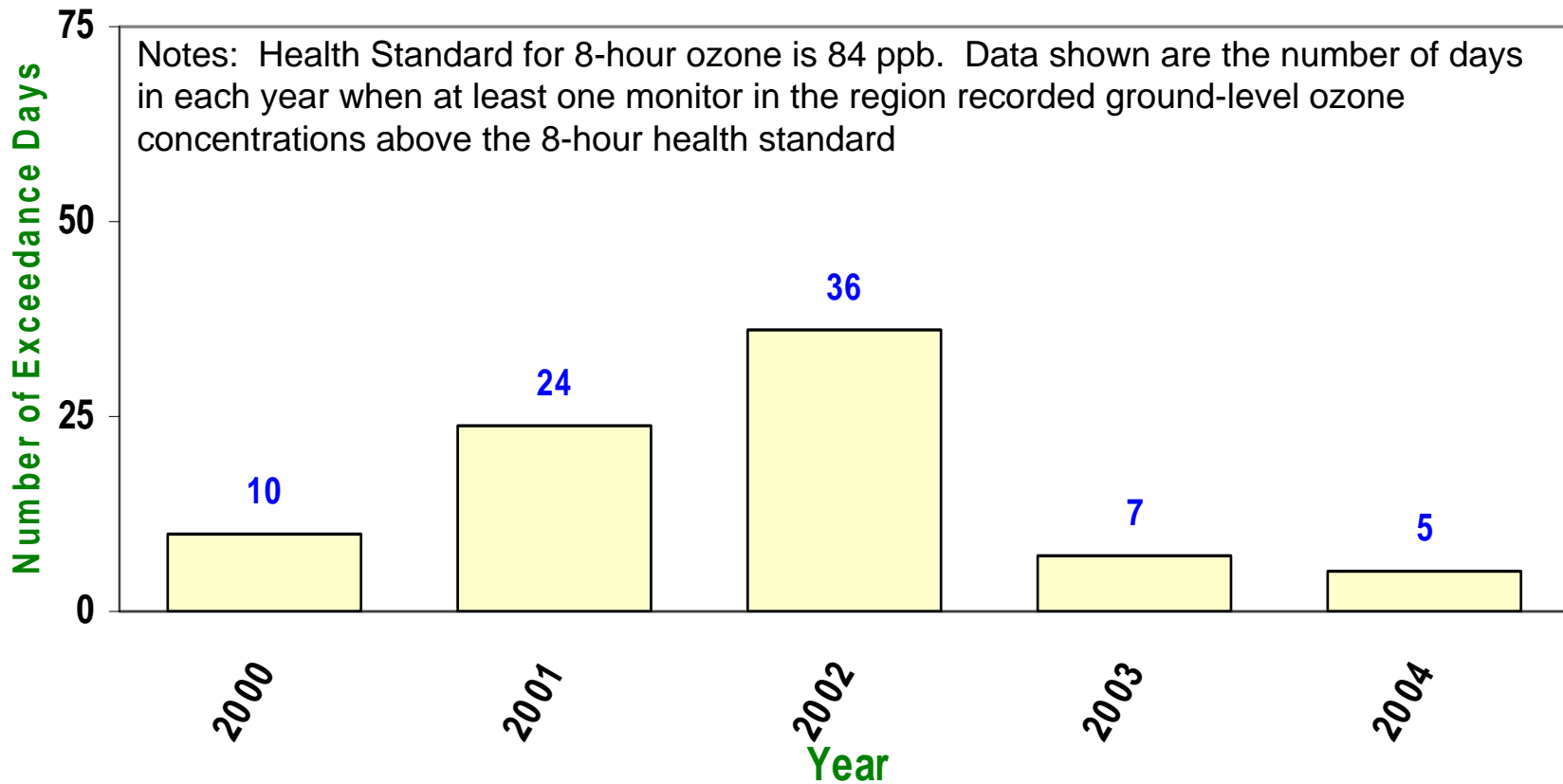
July 3, 2004

**Figure 1a: Exceedances of 1-Hr Ozone Standard
Washington Metropolitan Region, 2000-2004**



Note: Data for 2004 is preliminary and is valid through 7/27/04

Figure 1b: Exceedances of 8-Hour Ozone Standard Washington Metropolitan Region, 2000-2004



Note: Data for 2004 is preliminary and is valid through 7/27/04