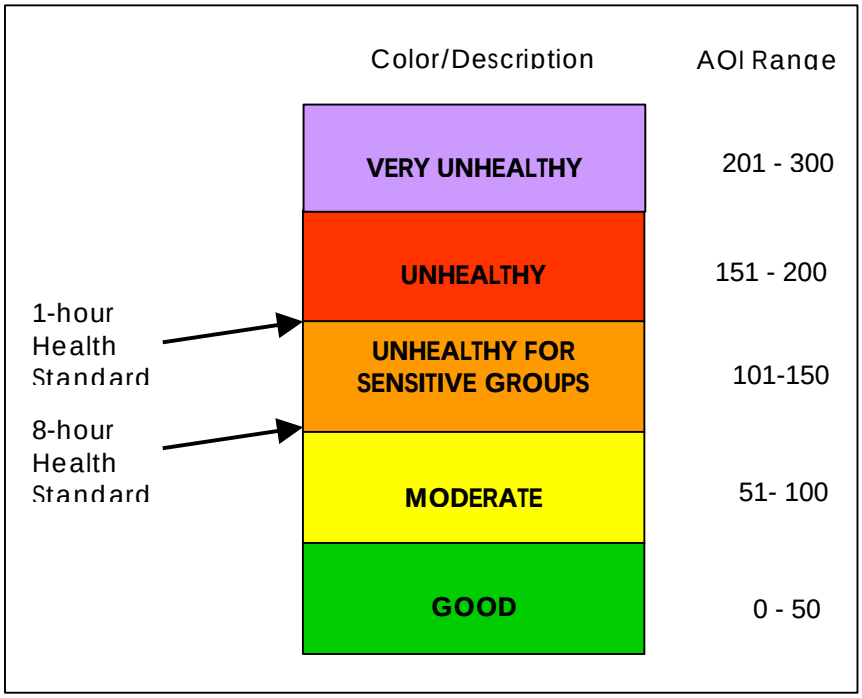
2002 Ozone Season Summary

Metropolitan Washington Region

Department of Environmental Programs
Metropolitan Washington
Council of Governments
Washington, DC

Air Quality Reporting

Air Quality Index (AQI) Ranges – Health Descriptors



AQI Codes, Health Descriptors, and Ground-Level Ozone (O_3) Concentration Ranges in parts per billion (ppb)

AQI COLOR	AQI RANGE	HEALTH DESCRIPTOR	1-HOUR O_3 RANGE	8-HOUR O_3 RANGE
Purple	201 - 300	Very Unhealthy	>204	>124
Red	151 - 200	Unhealthy	125 - 204	105 - 124
Orange	101 - 150	Unhealthy for Sensitive Groups	105-124	85 – 104
Yellow	51 – 100	Moderate	80 – 104	65 – 84
Green	0 – 50	Good	0 – 79	0 - 64

Air Quality in Metropolitan Washington Area
Ozone Season 2002

Ozone Action Day Forecasts Issued*		
June 11	July 1-2 (Orange)	August 1 (Orange)
June 24-25	July 3	August 2-3
	July 17	August 5
		August 11-14
*Code Red unless noted		
Total: 15 (12 Code Red, 3 Code Orange)		

Exceedances of One-Hour Standard, 2002			
Date	**# of Monitors Exceeding**	**Regional high (ppb)**	**Highest Monitor**
June 10	1	125	McMillan
June 11	1	126	McMillan
June 25	8	151	McMillan
July 2	8	158	Mt. Vernon
August 2	7	149	Cub Run
August 3	1	126	McMillan
August 12	2	131	Arlington
August 13	5	153	Mt. Vernon
September 10	2	132	Ashburn
Total: 9			

Exceedances of Eight-Hour Standard, 2002			
June 5	July 1-4	August 1-5	September 9-10
June 10-11	July 8-9	August 10-14	
June 21-22	July 12	August 19	
June 24-25	July 16-22	August 21-22	
June 30	July 31		
Total: 38			

Daily Peak One-hour Ozone Concentration

Washington Non-Attainment Area-2002

MAY

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
			1	2	3	4
			64	58	59	51
5	6	7	8	9	10	11
72	67	51	68	47	69	81
12	13	14	15	16	17	18
70	62	55	69	77	74	45
19	20	21	22	23	24	25
52	60	52	55	75	89	83
26	27	28	29	30	31	
93	91	70	68	79	67	

JUNE

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
						1
						87
2	3	4	5	6	7	8
80	80	96	106	110	63	76
9	10	11	12	13	14	15
92	125	126	97	64	34	55
16	17	18	19	20	21	22
59	70	82	69	85	103	124
23	24	25	26	27	28	29
84	124	151	86	82	82	90
30						
97						

JULY

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
	1	2	3	4	5	6
	117	158	111	101	90	63
7	8	9	10	11	12	13
72	109	113	79	67	109	75
14	15	16	17	18	19	20
53	88	98	124	117	106	100
21	22	23	24	25	26	27
100	98	82	69	63	36	60
28	29	30	31			
82	82	75	94			

AUGUST

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
				1	2	3
				119	149	126
4	5	6	7	8	9	10
120	123	53	49	58	86	104
11	12	13	14	15	16	17
120	131	153	120	104	79	92
18	19	20	21	22	23	24
78	111	88	100	110	82	68
25	26	27	28	29	30	31
62	87	87	57	32	47	54

SEPTEMBER

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
1	2	3	4	5	6	7
31	98	86	85	71	64	100
8	9	10	11	12	13	14
86	104	132	89	54	83	52
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

Daily Peak 8-hour Ozone Concentration

Washington Non-Attainment Area-2002

MAY

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
			1	2	3	4
			60	52	58	46
5	6	7	8	9	10	11
67	63	48	62	43	66	76
12	13	14	15	16	17	18
64	50	54	64	75	66	42
19	20	21	22	23	24	25
51	57	48	49	69	84	76
26	27	28	29	30	31	
74	74	58	59	70	57	

JUNE

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
						1
						80
2	3	4	5	6	7	8
73	68	83	91	74	60	72
9	10	11	12	13	14	15
79	109	100	78	43	28	52
16	17	18	19	20	21	22
54	63	72	65	79	94	108
23	24	25	26	27	28	29
77	111	120	73	73	60	74
30						
87						

JULY

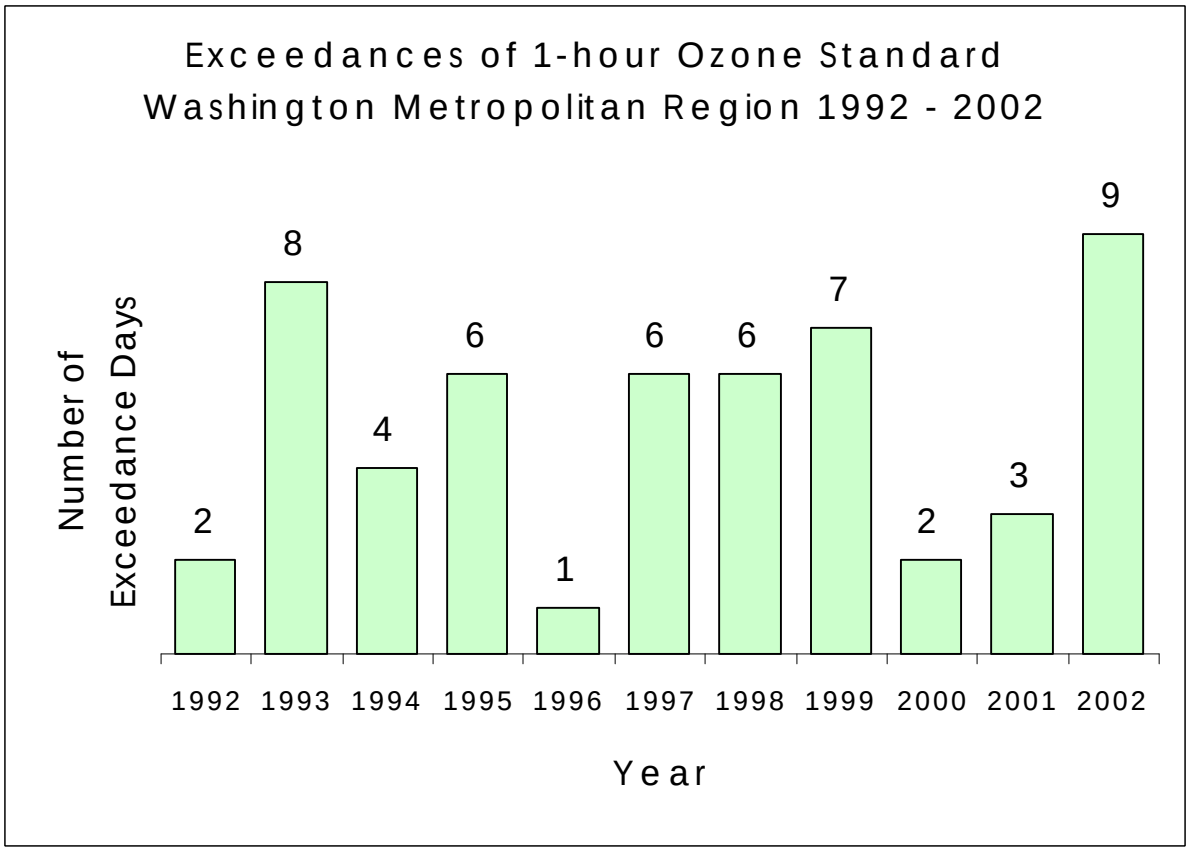
Sun	Mon	Tues	Wed	Thurs	Fri	Sat
	1	2	3	4	5	6
	100	134	102	89	82	57
7	8	9	10	11	12	13
65	94	99	67	58	95	70
14	15	16	17	18	19	20
47	83	91	100	100	92	89
21	22	23	24	25	26	27
89	85	76	56	54	29	49
28	29	30	31			
68	74	70	87			

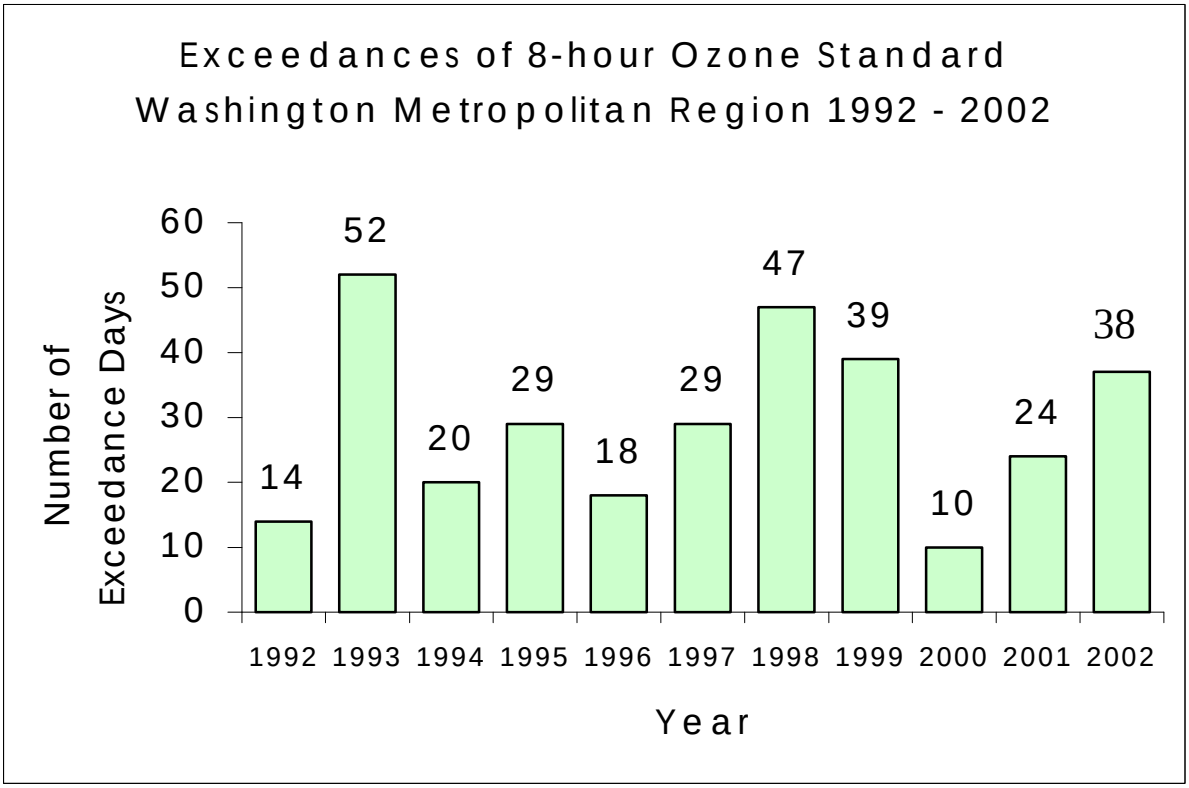
AUGUST

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
				1	2	3
				108	113	91
4	5	6	7	8	9	10
96	97	49	42	50	73	94
11	12	13	14	15	16	17
106	115	128	100	82	62	80
18	19	20	21	22	23	24
72	98	82	89	95	68	60
25	26	27	28	29	30	31
55	77	77	44	28	39	44

SEPTEMBER

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
1	2	3	4	5	6	7
30	72	70	76	62	51	83
8	9	10	11	12	13	14
77	90	119	78	48	76	49
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					


Exceedances of 1-hour Ozone Standard
Washington Metropolitan Region 1992 - 2002
Number of Exceedance Days
2
8
4
6
1
6
6
7
2
3
9
1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002
Year


Exceedances of 8-hour Ozone Standard
Washington Metropolitan Region 1992 - 2002
Number of Exceedance Days
60
50
40
30
20
10
0
14
52
20
29
18
29
47
39
10
24
38
1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002
Year