



Ozone Season Summary



MWAQC

July 27, 2005



Comparison of Ozone Standards

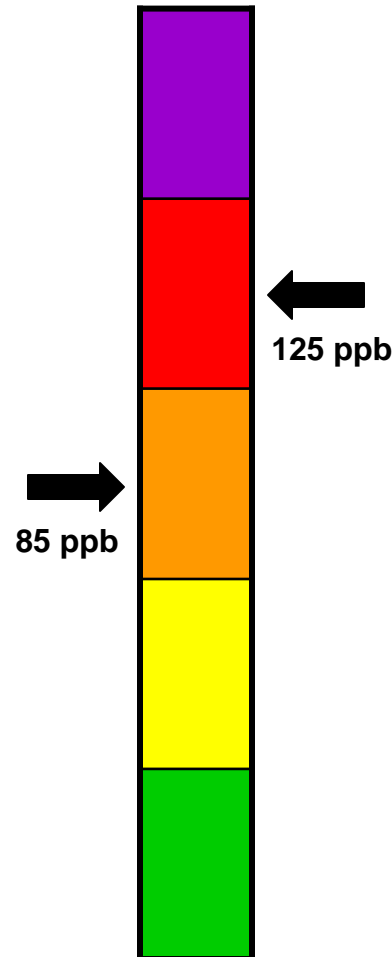
8-Hr Ozone Standard

Protects against chronic exposure

Lower limit over a longer period of time

Exceedance known at end of day

Designated in June, 2004



1-Hr Ozone Standard

Protects against shorter-term exposure

Higher ozone limit measured over shorter time

Exceedance known at end of hour

Revoked on June 15, 2005



8-Hour Ozone Summary

Daily Peak 8-Hour Ozone Concentration (ppb) Washington Area-2005

MAY

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
1	2	3	4	5	6	7
55	51	40	53	58	51	69
8	9	10	11	12	13	14
64	60	67	67	47	46	59
15	16	17	18	19	20	21
50	44	47	62	58	54	49
22	23	24	25	26	27	28
52	41	29	37	53	65	53
29	30	31				
53	58	63				

JUNE

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
			1	2	3	4
			78	45	32	49
5	6	7	8	9	10	11
81	75	80	83	63	41	52
12	13	14	15	16	17	18
48	41	75	66	60	53	69
19	20	21	22	23	24	25
49	48	78	73	70	81	87
26	27	28	29	30		
96	43	67	52	91		

JULY

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
					1	2
					86	69
3	4	5	6	7	8	9
78	68	66	70	48	47	75
10	11	12	13	14	15	16
75	81	100	52	81	50	58
17	18	19	20	21	22	23
58	69	54	88	93		
24	25	26	27	28	29	30
31						

Draft

Draft



I-Hour Ozone Summary

Daily Peak One-Hour Ozone Concentration (ppb) Washington Area-2005

MAY

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
1	2	3	4	5	6	7
58	55	44	58	61	54	75
8	9	10	11	12	13	14
68	66	76	79	58	50	70
15	16	17	18	19	20	21
56	47	53	68	61	59	55
22	23	24	25	26	27	28
56	48	37	46	57	71	63
29	30	31				
56	67	67				

JUNE

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
			1	2	3	4
			87	57	36	59
5	6	7	8	9	10	11
87	98	98	96	70	49	62
12	13	14	15	16	17	18
45	49	80	70	69	56	75
19	20	21	22	23	24	25
61	60	84	86	89	92	100
26	27	28	29	30		
96	54	84	61	104		

JULY

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
					1	2
					104	75
3	4	5	6	7	8	9
82	80	89	81	66	53	88
10	11	12	13	14	15	16
86	90	115	66	106	67	68
17	18	19	20	21	22	23
76	78	67	97	112		
24	25	26	27	28	29	30
31						

Draft

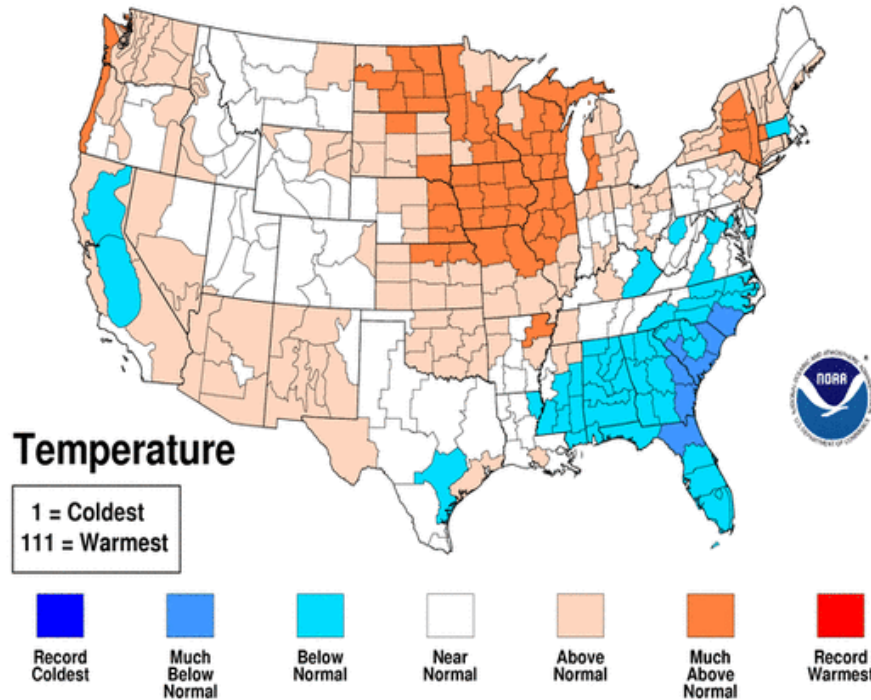
Draft



Why no Red?

Apr - Jun 2005

National Climatic Data Center/NESDIS/NOAA



Below normal temperatures during the first part of summer.

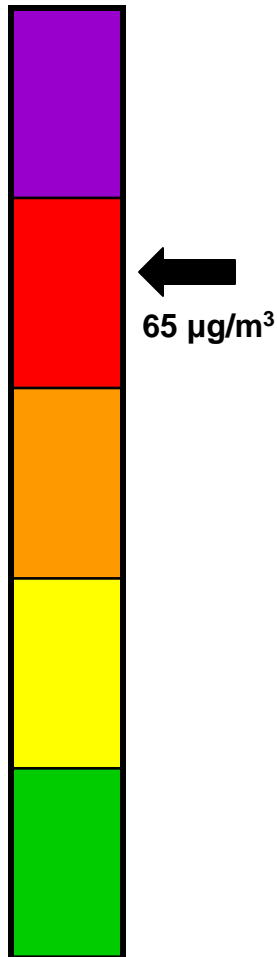
Tropical Airmass – warm, moist conditions.

No typical Bermuda High off the NC coast.

Little transport from the west.



Fine Particle Standard



24-Hr Fine Particle Standard

Fine particles are less than 2.5 µm in diameter.

Fine particles become stuck deep in the lungs or enter the bloodstream, causing severe health problems for asthmatics and people with lung or heart disease.

Designated in November, 2004



24-Hour Particle Summary

Daily Peak 24-Hour Particle Concentration (ug/m3) Washington Area-2005

MAY

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

JUNE

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
			1	2	3	4
			18	9.5	1.6	11
5	6	7	8	9	10	11
24	24	12	21	19	13	15
12	13	14	15	16	17	18
8.5	8.3	23	13	8.3	9	14
19	20	21	22	23	24	25
5.3	8.5	16	22	8	15	21
26	27	28	29	30		
19	5.3	14	9.1	26		

JULY

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
					1	2
					21	17
3	4	5	6	7	8	9
12	21	20	23	24	3	15
10	11	12	13	14	15	16
15	34	33	24	18	24	23
17	18	19	20	21	22	23
17	23	21	27	30		
24	25	26	27	28	29	30
31						

Draft

Draft