



# **Ozone Season Summary**



**MWAQC**

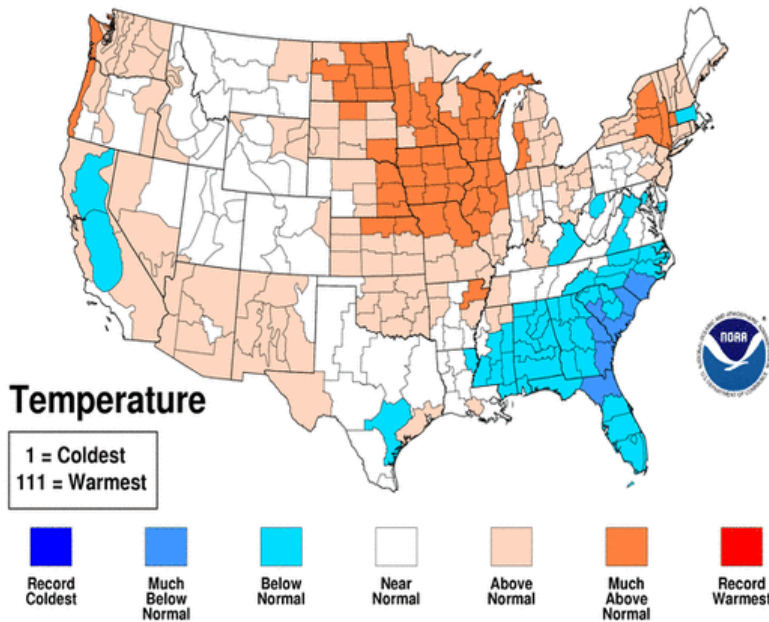
**September 28, 2005**



# Meteorological Conditions

Apr - Jun 2005

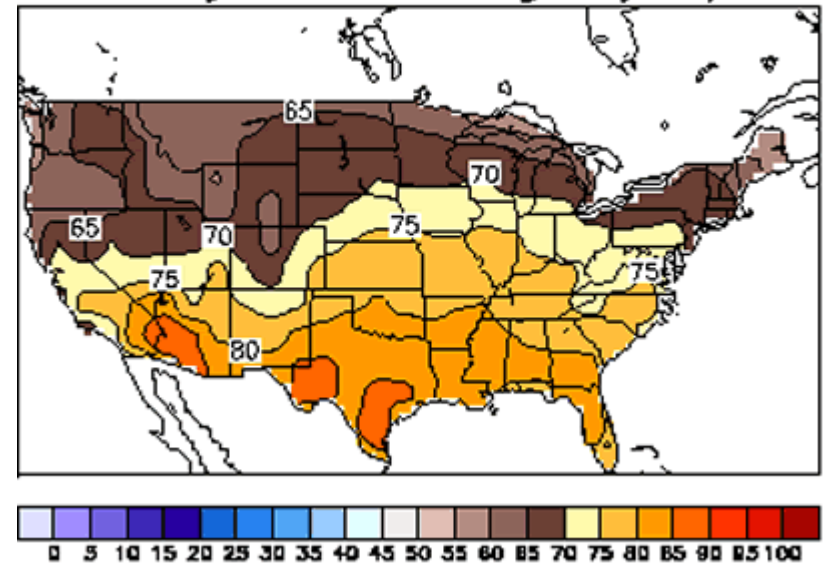
National Climatic Data Center/NESDIS/NOAA



Below normal temperatures during the first part of summer.

No typical Bermuda High off the NC coast.

Max Temperature (F)  
90-Day mean ending 06/30/2005

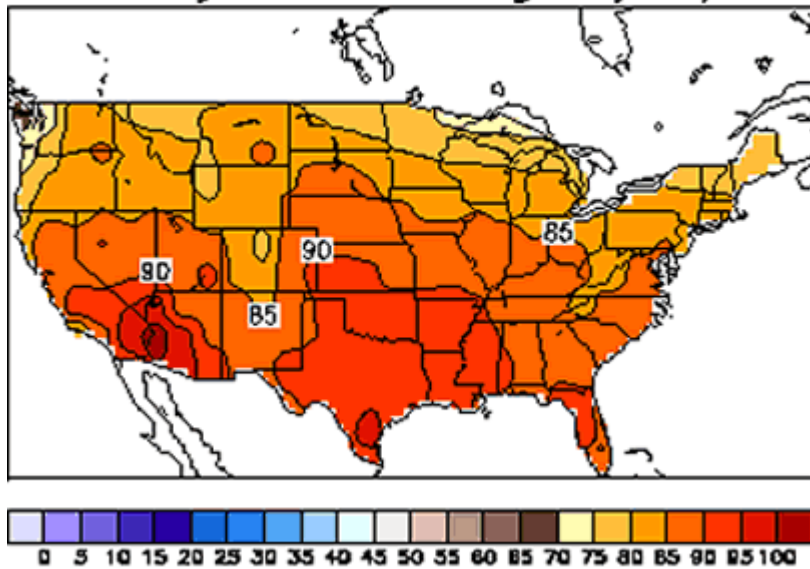


Average daily maximum temperatures from April – June were below 75°F.

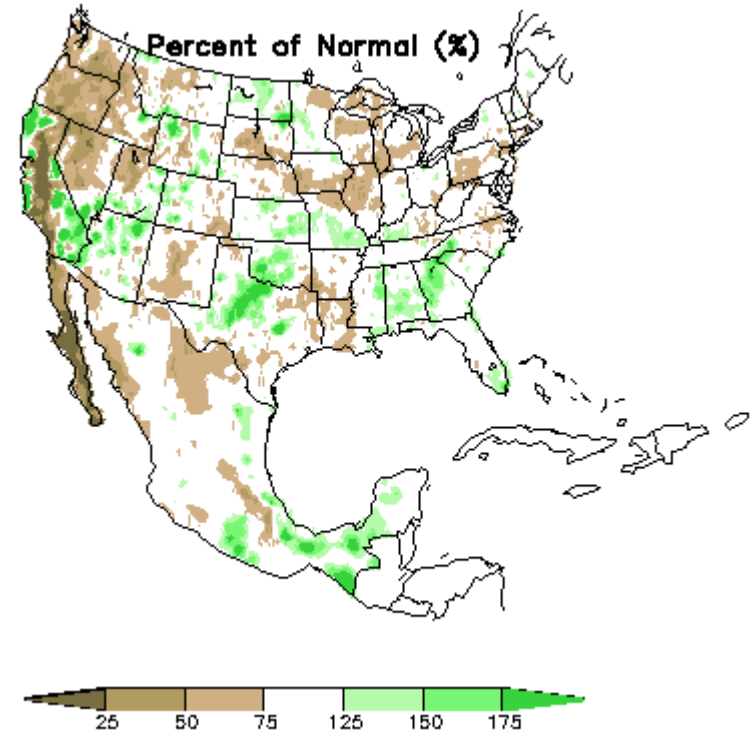


# Meteorological Conditions

Max Temperature (F)  
90-Day mean ending 09/15/2005



Persistent high pressure over the region.  
Average temperatures were above normal.



Normal to below normal precipitation.



# 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	94	64
24	25	26	27	28	29	30
64	80	97	78	66	55	70
31						
59						

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### AUGUST

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
	1	2	3	4	5	6
	82	89	97	97	94	88
7	8	9	10	11	12	13
69	52	28	60	94	88	88
14	15	16	17	18	19	20
80	73	46	71	73	46	69
21	22	23	24	25	26	27
63	62	62	58	68	56	35
28	29	30	31			
58	55	29	43			

### SEPTEMBER

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
				1	2	3
				54	72	54
4	5	6	7	8	9	10
50	55	60	67	83	88	80
11	12	13	14	15	16	17
77	86	82	32	44		
18	19	20	21	22	23	24
25	26	27	28	29	30	



# 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

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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	115	74
24	25	26	27	28	29	30
81	107	111	86	78	72	83
31						
66						

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### AUGUST

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
	1	2	3	4	5	6
	100	104	116	111	116	103
7	8	9	10	11	12	13
84	60	30	77	119	102	111
14	15	16	17	18	19	20
96	80	62	94	83	67	79
21	22	23	24	25	26	27
70	69	73	65	86	68	43
28	29	30	31			
72	69	37	48			

### SEPTEMBER

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
				1	2	3
				61	83	61
4	5	6	7	8	9	10
57	62	70	71	97	98	89
11	12	13	14	15	16	17
94	97	99	42	54		
18	19	20	21	22	23	24
25	26	27	28	29	30	



# 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	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	10	2	11
5	6	7	8	9	10	11
24	24	12	21	19	13	15
12	13	14	15	16	17	18
9	8	23	13	8.3	9	14
19	20	21	22	23	24	25
5	9	16	22	8	15	21
26	27	28	29	30		
19	5	14	9	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	34	12
24	25	26	27	28	29	30
9	31	23	26	10	18	16
31						
11						

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### AUGUST

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
	1	2	3	4	5	6
	18	29	25	34	35	24
7	8	9	10	11	12	13
24	15	6	10	31	43	44
14	15	16	17	18	19	20
39	16	14	12	24	12	24
21	22	23	24	25	26	27
19	13	14	13	12	10	5
28	29	30	31			
16	8	6	7			

### SEPTEMBER

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



# Conclusion



- Cooler than normal first half of the summer – Low ozone concentrations.
- Near “Normal” meteorological conditions second half of summer – Higher ozone concentrations.
- Nineteen “Code Orange” days (exceedances) of the 8-hour standard.
- No “Code Red” days