OZONE SEASON SUMMARY 2024

Sunil Kumar Principal Environmental Engineer

MWAQC September 25, 2024



Peak 8-Hour Average Ozone Levels (ppb)

Ma	rch	2024				
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
25	26	27	28	29	01	02
					44	39
03	04	05	06	07	08	09
42	44	30	24	39	38	39
10	11	12	13	14	15	16
40	46	54	57	63	54	47
17	18	19	20	21	22	23
48	43	42	52	44	42	42
24	25	26	27	28	29	30
46	48	42	31	46	55	53
31						
52						

Ju	June					
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
26	27	28	29	30	31	01
						67
02	03	04	05	06	07	08
54	52	67	43	48	55	56
09	10	11	12	13	14	15
51	55	43	58	65	72	55
16	17	18	19	20	21	22
60	67	63	66	61	67	76
23	24	25	26	27	28	29
49	53	55	68	67	60	53
30						
51						

Ар	ril	2024				
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
31	01	02	03	04	05	06
	43	44	42	40	42	43
07	08	09	10	11	12	13
48	51	60	58	44	50	52
14	15	16	17	18	19	20
58	60	60	51	50	35	53
21	22	23	24	25	26	27
40	51	56	58	41	44	41
28	29	30				
53	60	59				

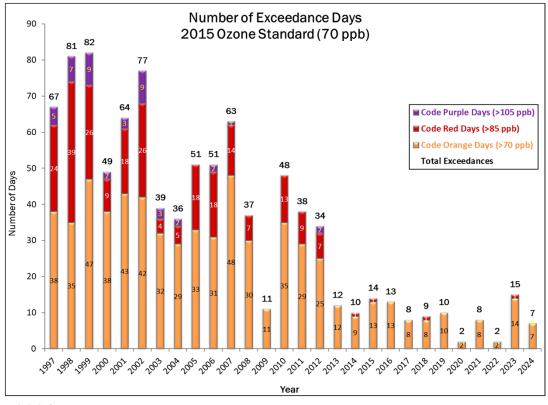
Ju	ly	2024				
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30	01	02	03	04	05	06
	39	52	57	58	54	55
07	08	09	10	11	12	13
62	70	59	45	67	47	55
14	15	16	17	18	19	20
62	65	60	69	53	62	49
21	22	23	24	25	26	27
65	41	65	55	56	57	52
28	29	30	31			
69	72	42	61			

May		2024				
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28	29	30	01	02	03	04
			62	70	52	26
05	06	07	08	09	10	11
31	34	46	52	49	26	42
12	13	14	15	16	17	18
41	51	47	41	46	41	40
19	20	21	22	23	24	25
47	52	58	62	57	72	68
26	27	28	29	30	31	
63	38	55	49	49	53	

Aug	ust	2024				
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28	29	30	31	01	02	03
				80	52	50
04	05	06	07	08	09	10
53	67	58	35	28	31	57
11	12	13	14	15	16	17
52	53	48	50	50	54	44
18	19	20	21	22	23	24
47	43	37	40	48	64	63
25	26	27	28	29	30	31
58	56	74	76	66	26	40

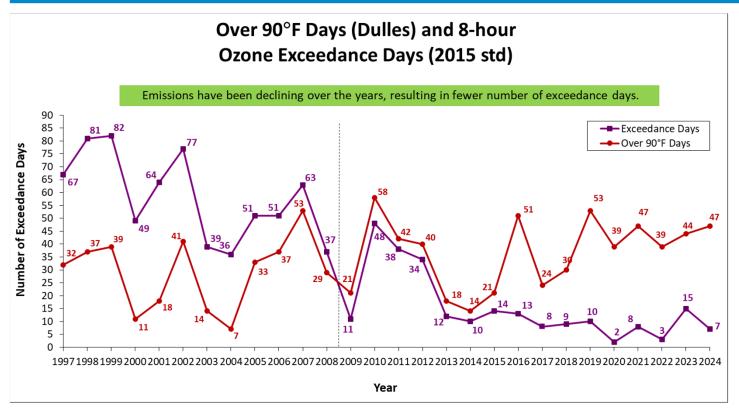


Ozone Exceedance Trend



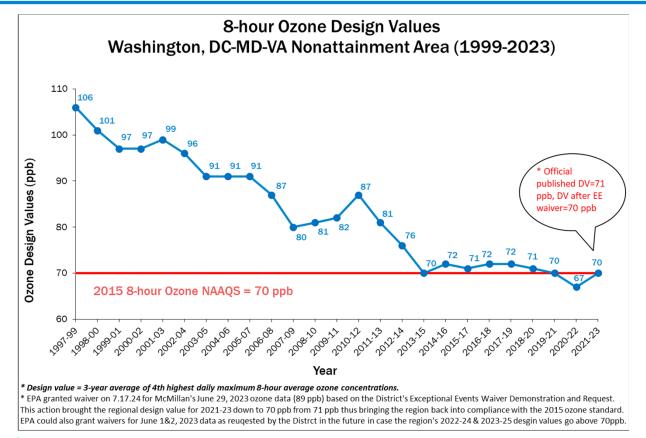


Ozone & Temperature Trend





Ozone Design Value Trends





24-Hour Average PM2.5 Levels (µg/m³)

Ma	rch	2024				
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
25	26	27	28	29	01	02
					6.1	4.8
03	04	05	06	07	08	09
7.0	5.8	3.2	7.9	3.8	4.7	5.6
10	11	12	13	14	15	16
2.3	1.9	6.9	10.4	13.0	10.7	4.9
17	18	19	20	21	22	23
5.0	3.8	3.8	7.6	5.0	7.3	5.9
24	25	26	27	28	29	30
4.9	6.6	7.1	7.3	9.1	7.5	7.4
31						
9.2						

Ар	ril	2024				
Sunday						
31	01	02	03	04	05	06
	8.3	6.1	3.7	3.4	2.0	3.0
07	08	09	10	11	12	13
3.3	9.0	13.7	9.5	8.2	3.0	3.2
14	15	16	17	18	19	20
7.0	10.9	6.3	10.9	10.9	12.7	8.1
21	22	23	24	25	26	27
4.1	5.6	6.8	6.1	5.7	5.6	6.7
28	29	30				
12.0	11.4	13.9				

M	ay	2024				
Sunday						
28	29	30	01	02	03	04
			6.7	9.8	8.6	4.1
05	06	07	08	09	10	11
6.0	8.7	9.4	9.3	8.3	4.4	3.4
12	13	14	15	16	17	18
4.4	6.1	8.0	4.8	6.1	5.2	7.3
19	20	21	22	23	24	25
10.2	9.6	8.4	10.2	10.9	10.8	11.8
26	27	28	29	30	31	
9.7	7.6	4.7	6.5	5.2	6.0	

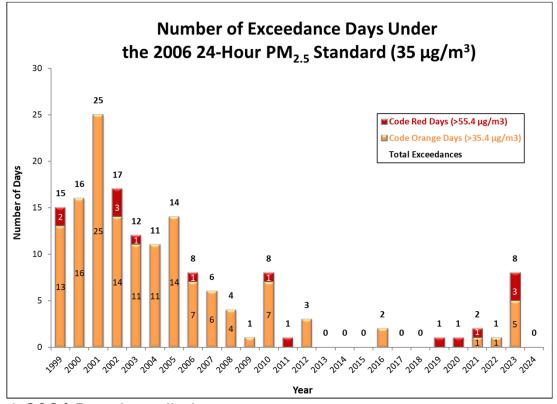
Jur	ne	2024				
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
26	27	28	29	30	31	01
						7.0
02	03	04	05	06	07	08
11.5	10.0	11.6	12.4	9.2	5.6	7.3
09	10	11	12	13	14	15
7.4	6.5	6.4	8.7	14.6	12.2	8.2
16	17	18	19	20	21	22
9.2	12.4	12.3	8.0	8.4	10.2	15.1
23	24	25	26	27	28	29
10.8	6.7	9.9	10.0	6.5	6.4	8.8
30						
11.1						

Ju	ly	2024				
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30	01	02	03	04	05	06
	4.7	5.5	7.7	29.5	15.3	9.1
07	08	09	10	11	12	13
7.3	12.4	12.0	9.7	4.7	7.2	6.2
14	15	16	17	18	19	20
11.6	13.7	14.5	10.2	9.7	9.4	9.7
21	22	23	24	25	26	27
10.6	8.2	7.1	7.5	14.6	9.6	7.7
28	29	30	31			
9.9	12.8	9.4	9.9			

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturda
28	29	30	31	01	02	03
				15.3	11.9	11.6
04	05	06	07	08	09	10
7.4	11.3	9.7	5.7	7.3	6.1	10.9
11	12	13	14	15	16	17
7.4	6.5	6.7	17.0	19.0	16.6	15.0
18	19	20	21	22	23	24
9.5	5.1	5.7	5.7	6.5	9.5	10.0
25	26	27	28	29	30	31
10.5	13.0	13.3	13.9	11.4	4.9	5.7

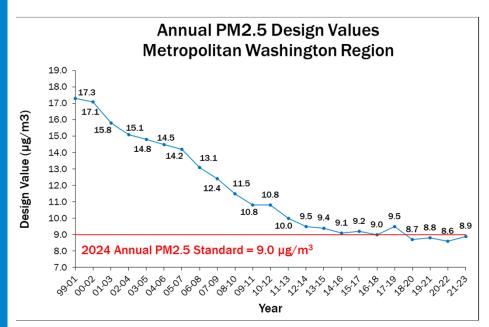


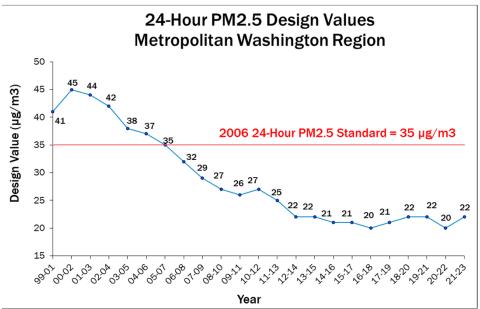
PM2.5 Exceedance Trend





PM2.5 Design Value Trends







Minimum 4th High Ozone in 2025 Needed to Exceed 2015 Ozone NAAQS

Monitor	Draft 2022-24 Design Value (ppb)*	4 Th High Ozone (ppb)
McMillan (DC)	69 (Excludes 6.29.23 EE data)	72
Prince George's Equestrian Center (MD)	68	72
Beltsville (MD)	68	73
Arlington (VA)	67	71

^{*} Based on draft data as of September 12, 2024.



2015 Ozone Standard Redesignation Request & Maintenance Plan Development

- Current ozone design value is 70 ppb that shows the Washington region is in compliance with the 2015 ozone standard.
- As a result, the region is planning to develop and submit to EPA a request to redesignate the region to attainment/maintenance area for the above standard.
- The plan is expected to be complete and submitted to EPA sometimes in 2026.
- Details of the plan development and a schedule will be presented to MWAQC in December 2024.



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