

OZONE SEASON SUMMARY 2025

Sunil Kumar
Principal Environmental Engineer

ACPAC
July 21, 2025

Peak 8-Hour Average Ozone Levels (ppb)

March 2025						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
23	24	25	26	27	28	01
						45
02	03	04	05	06	07	08
41	41	50	42	43	47	47
09	10	11	12	13	14	15
49	51	55	53	43	43	43
16	17	18	19	20	21	22
40	33	46	52	51	46	50
23	24	25	26	27	28	29
48	45	50	46	49	55	57
30	31					
46	48					

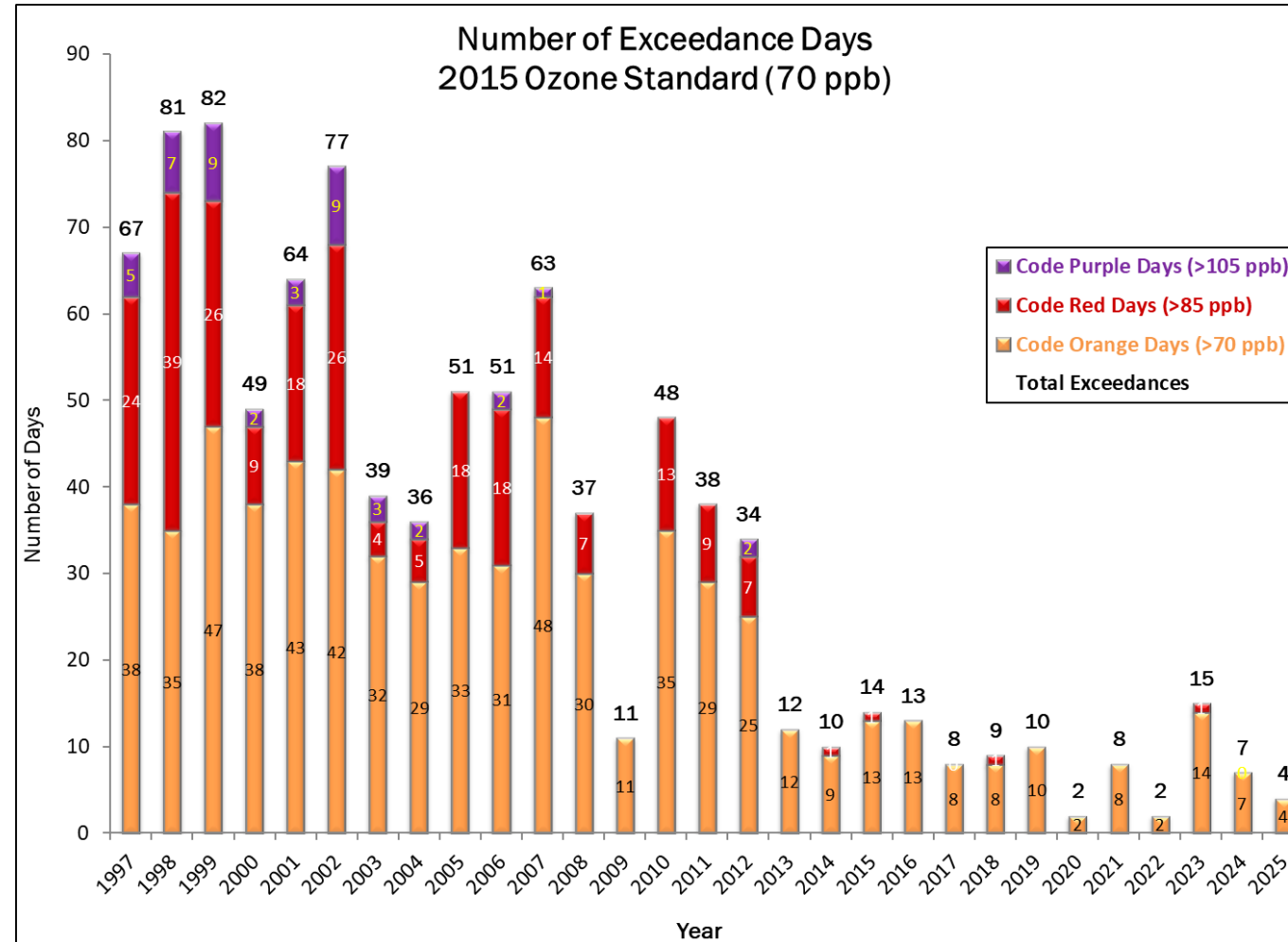
April 2025						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30	31	01	02	03	04	05
		44	51	35	48	41
06	07	08	09	10	11	12
34	34	47	49	53	43	40
13	14	15	16	17	18	19
48	53	48	47	51	62	50
20	21	22	23	24	25	26
48	48	57	65	65	53	42
27	28	29	30			
49	54	58	52			

May 2025						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
27	28	29	30	01	02	03
				60	55	49
04	05	06	07	08	09	10
38	46	43	49	56	36	55
11	12	13	14	15	16	17
68	57	46	45	53	51	54
18	19	20	21	22	23	24
41	50	50	33	31	40	38
25	26	27	28	29	30	31
41	49	38	39	35	56	44

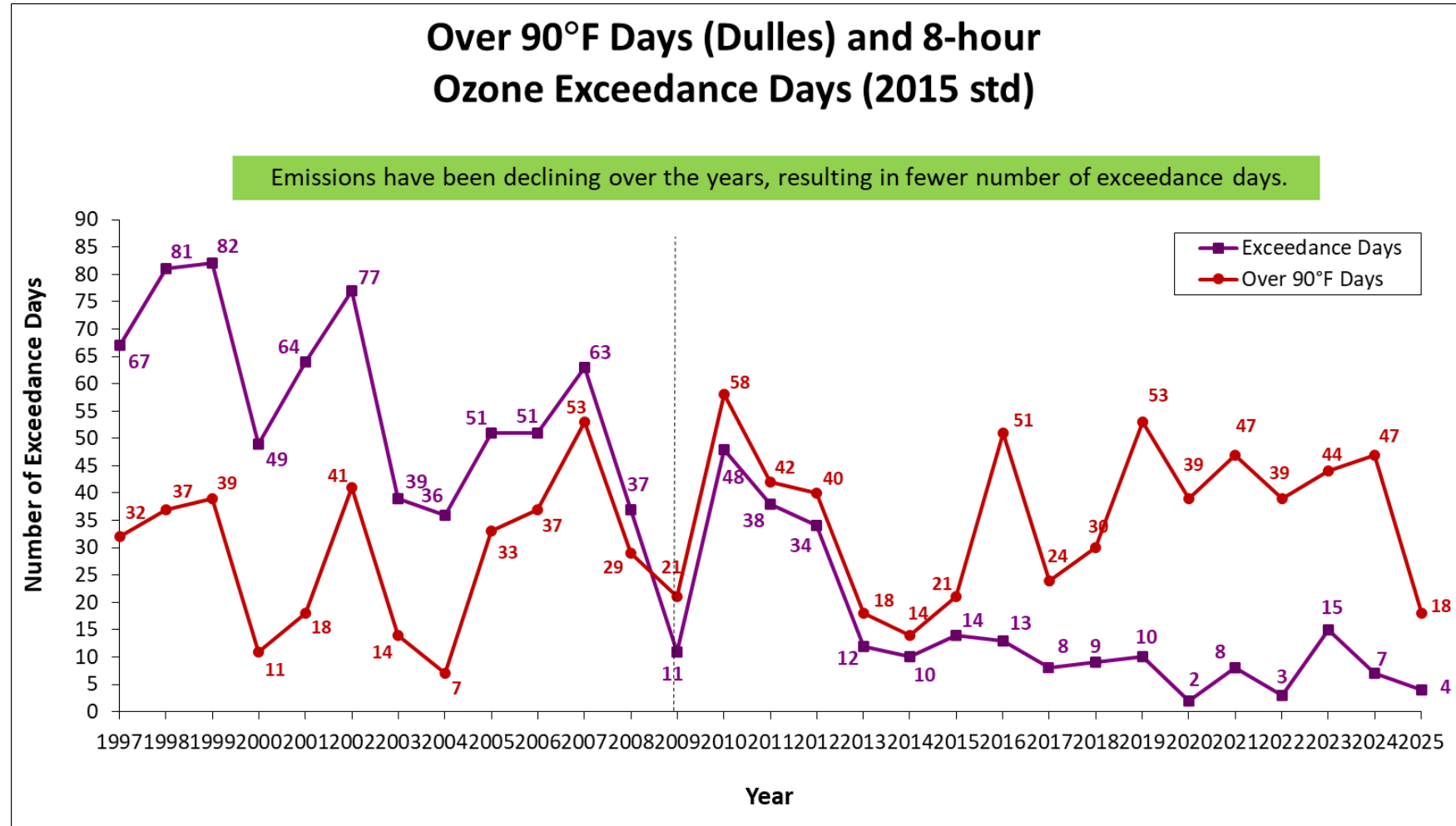
June 2025						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
01	02	03	04	05	06	07
46	53	65	67	68	50	50
08	09	10	11	12	13	14
37	53	54	72	78	68	57
15	16	17	18	19	20	21
29	25	27	36	42	55	63
22	23	24	25	26	27	28
29	63	70	67	71	30	46
29	30					
29	50					

July 2025						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
29	30	01	02	03	04	05
		46	59	66	57	63
06	07	08	09	10	11	12
45	46	51	56	57	71	48
13	14	15	16	17	18	19
41	43	56	41			
20	21	22	23	24	25	26
27	28	29	30	31		

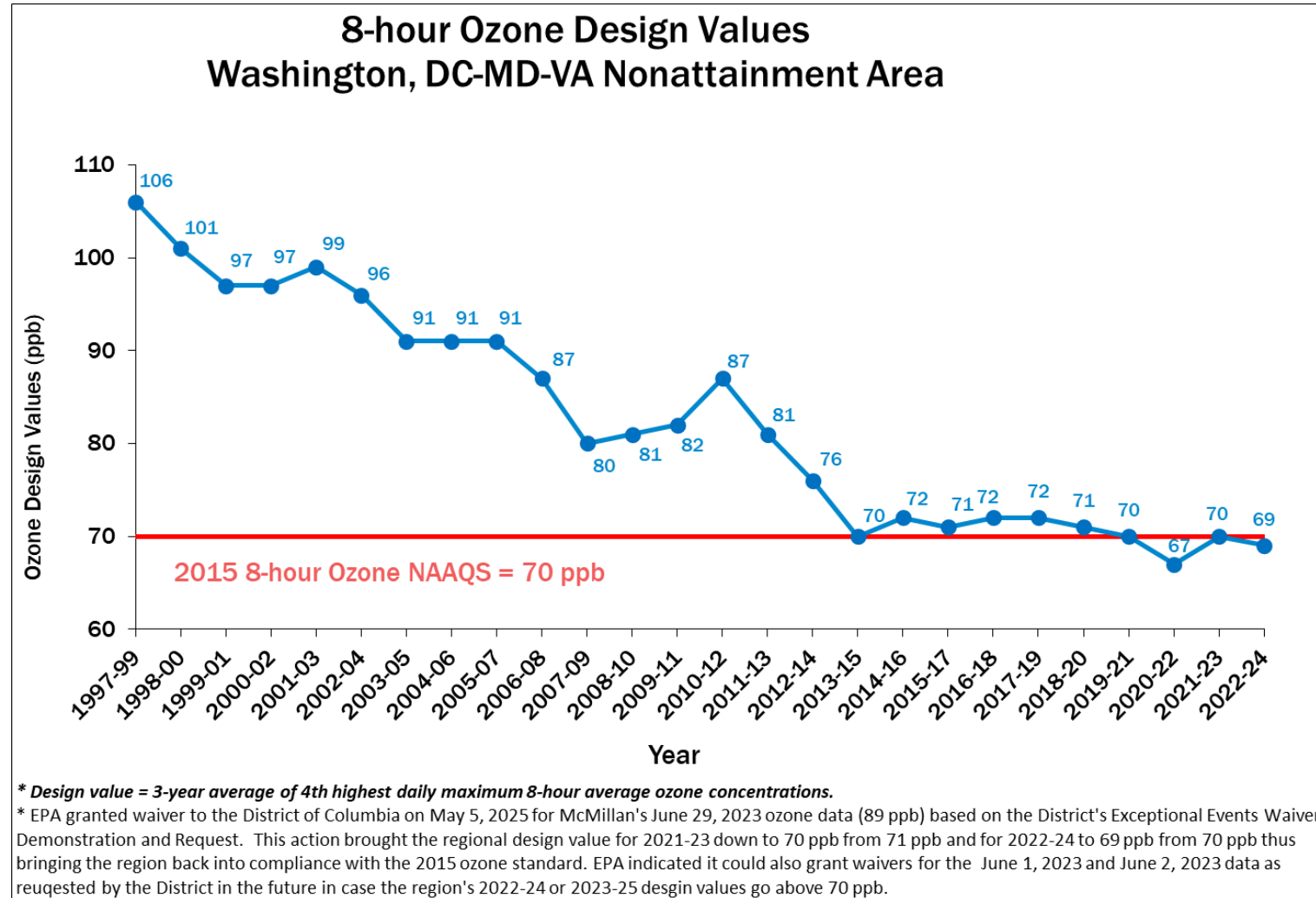
Ozone Exceedance Trend



Ozone & Temperature Trend



Ozone Design Value Trends



Why Fewer Exceedance Days Now ?

Emission Control Programs

Federal	State	Local
Acid Rain Program (1996/2000)	Vehicle Inspection & Maintenance Programs	Renewable Energy Programs Regional Wind Power Purchase Program Clean Energy Rewards Program Renewable Portfolio Standards
Tier 2 (LD Vehicle) Rule (2004)	Maryland Healthy Air Act (2009/2012)	Energy Efficiency Programs LED Traffic Signal Retrofit program Building Energy Efficiency Programs
HD Diesel vehicle Rule (2004/2007)	Virginia CSAPR Rule	VRE Idling Reduction
NOX SIP Call (2004)	Ozone Transport Commission Rules	LOW VOC Paint
CAIR/CSAPR/CSAPR Update/Revised CSAPR Update (2009/2015/2017/2021)		Gas Can Replacement

24-Hour Average PM2.5 Levels (µg/m³)

March 2025						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
23	24	25	26	27	28	01
						45
02	03	04	05	06	07	08
41	41	50	42	43	47	47
09	10	11	12	13	14	15
49	51	55	53	43	43	43
16	17	18	19	20	21	22
40	33	46	52	51	46	50
23	24	25	26	27	28	29
48	45	50	46	49	55	57
30	31					
46	48					

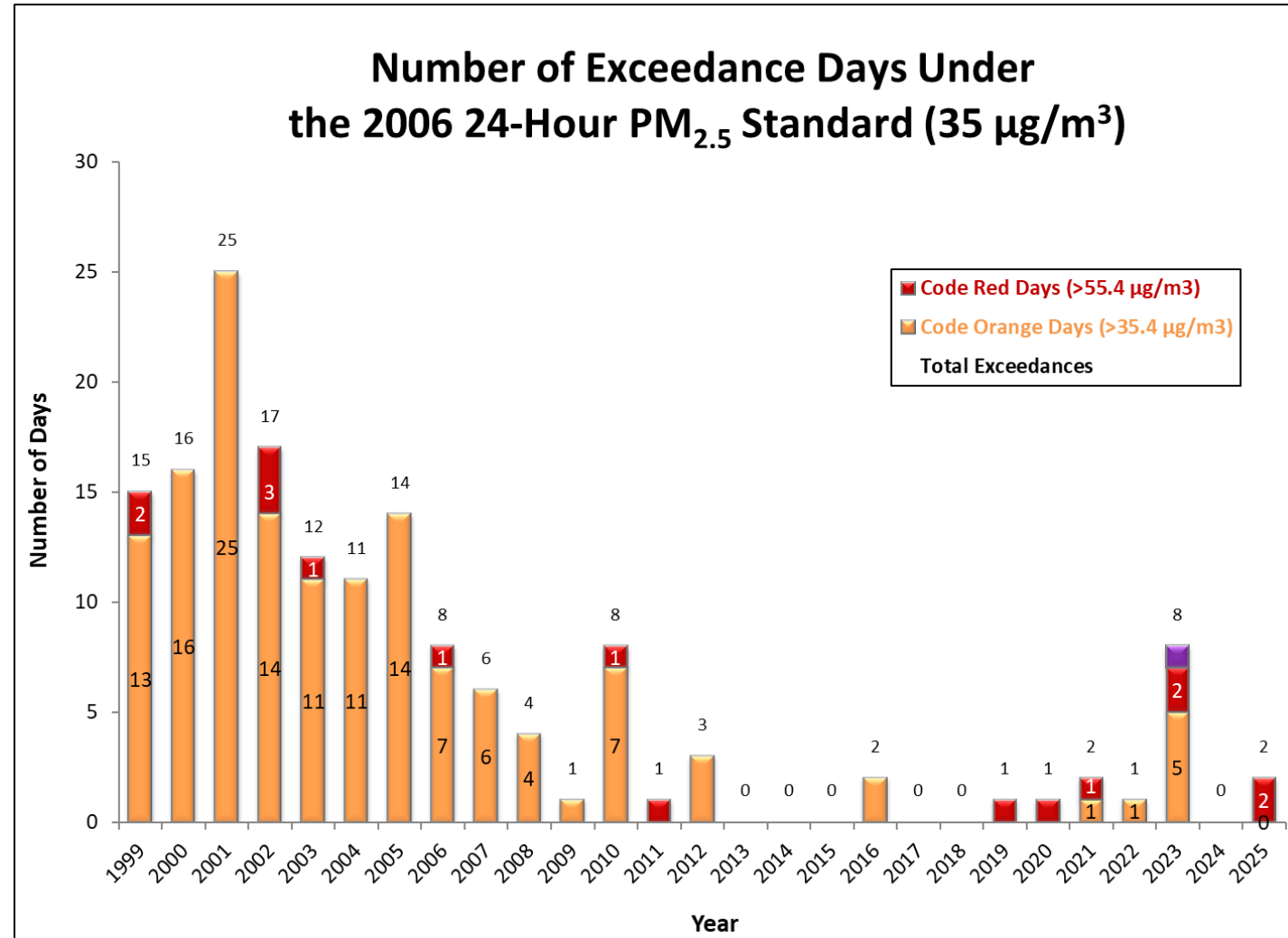
April 2025						
Sunday						
30	31	01	02	03	04	05
		4.6	4.7	8.4	6.4	10.8
06	07	08	09	10	11	12
9.5	6.7	4.1	4.8	6.0	7.5	5.3
13	14	15	16	17	18	19
4.7	9.8	6.4	2.6	4.7	11.0	14.9
20	21	22	23	24	25	26
8.9	7.4	8.6	9.3	14.4	8.8	8.4
27	28	29	30			
2.6	4.9	9.0	7.1			

May 2025						
Sunday						
27	28	29	30	01	02	03
				13.5	9.9	8.9
04	05	06	07	08	09	10
6.0	6.4	5.3	5.4	8.4	4.1	5.2
11	12	13	14	15	16	17
8.2	9.9	5.8	7.4	9.6	13.5	6.4
18	19	20	21	22	23	24
3.8	4.3	4.4	4.1	2.8	3.6	3.1
25	26	27	28	29	30	31
3.5	6.1	8.7	3.8	4.4	7.0	8.8

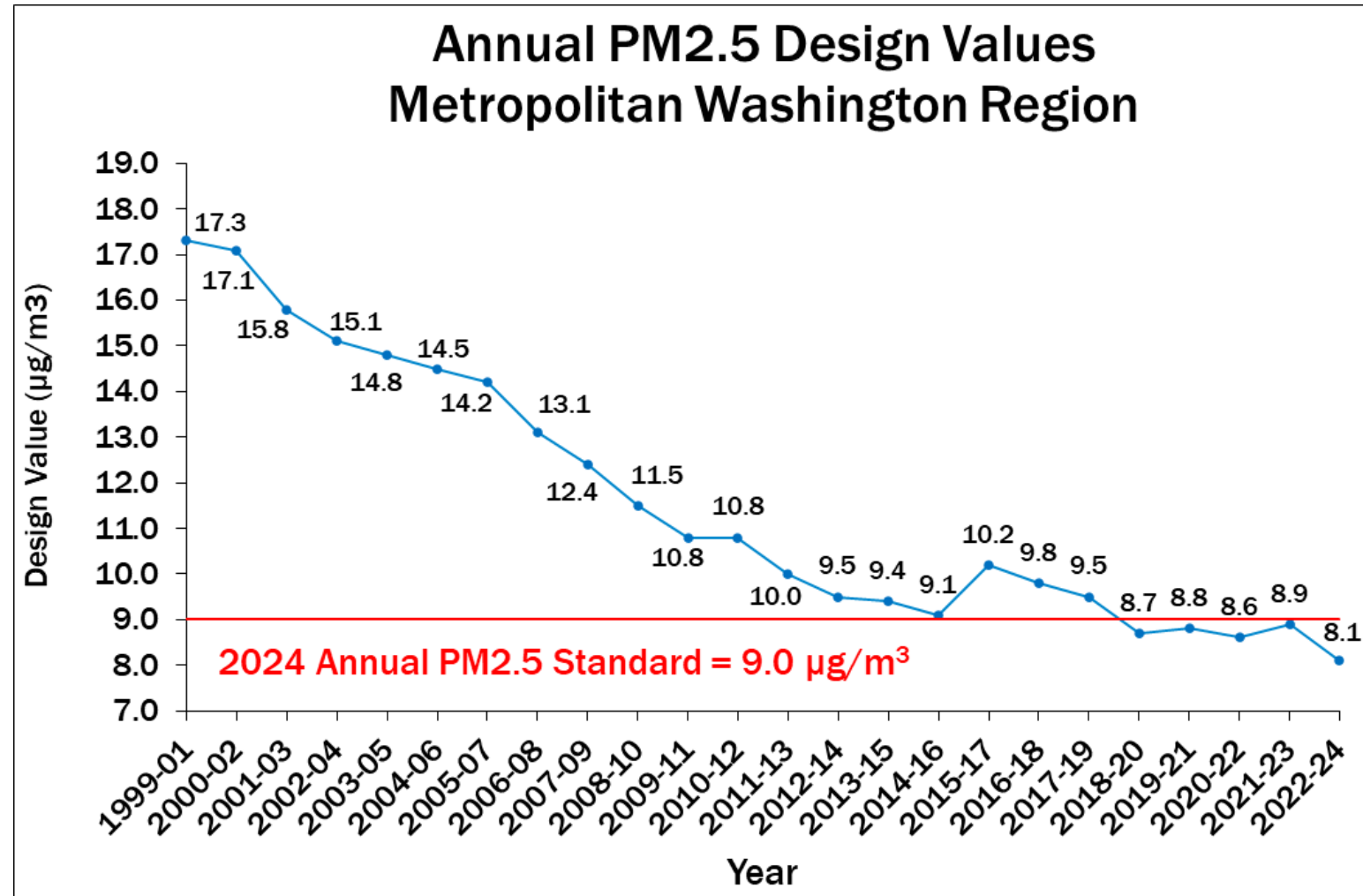
June 2025						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
01	02	03	04	05	06	07
4.9	6.9	8.4	14.6	16.2	12.3	7.9
08	09	10	11	12	13	14
12.9	9.7	11.4	17.5	21.0	21.3	21.6
15	16	17	18	19	20	21
8.1	4.7	7.2	12.0	6.7	5.4	9.8
22	23	24	25	26	27	28
11.9	15.5	16.2	17.4	11.6	8.0	8.2
29	30					
9.6	10.7					

July 2025						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
29	30	01	02	03	04	05
		11.3	6.9	9.4	103.8	59.0
06	07	08	09	10	11	12
9.6	9.0	11.2	8.2	8.7	10.7	11.7
13	14	15	16	17	18	19
8.2	7.9	7.2	6.9			
20	21	22	23	24	25	26
27	28	29	30	31		

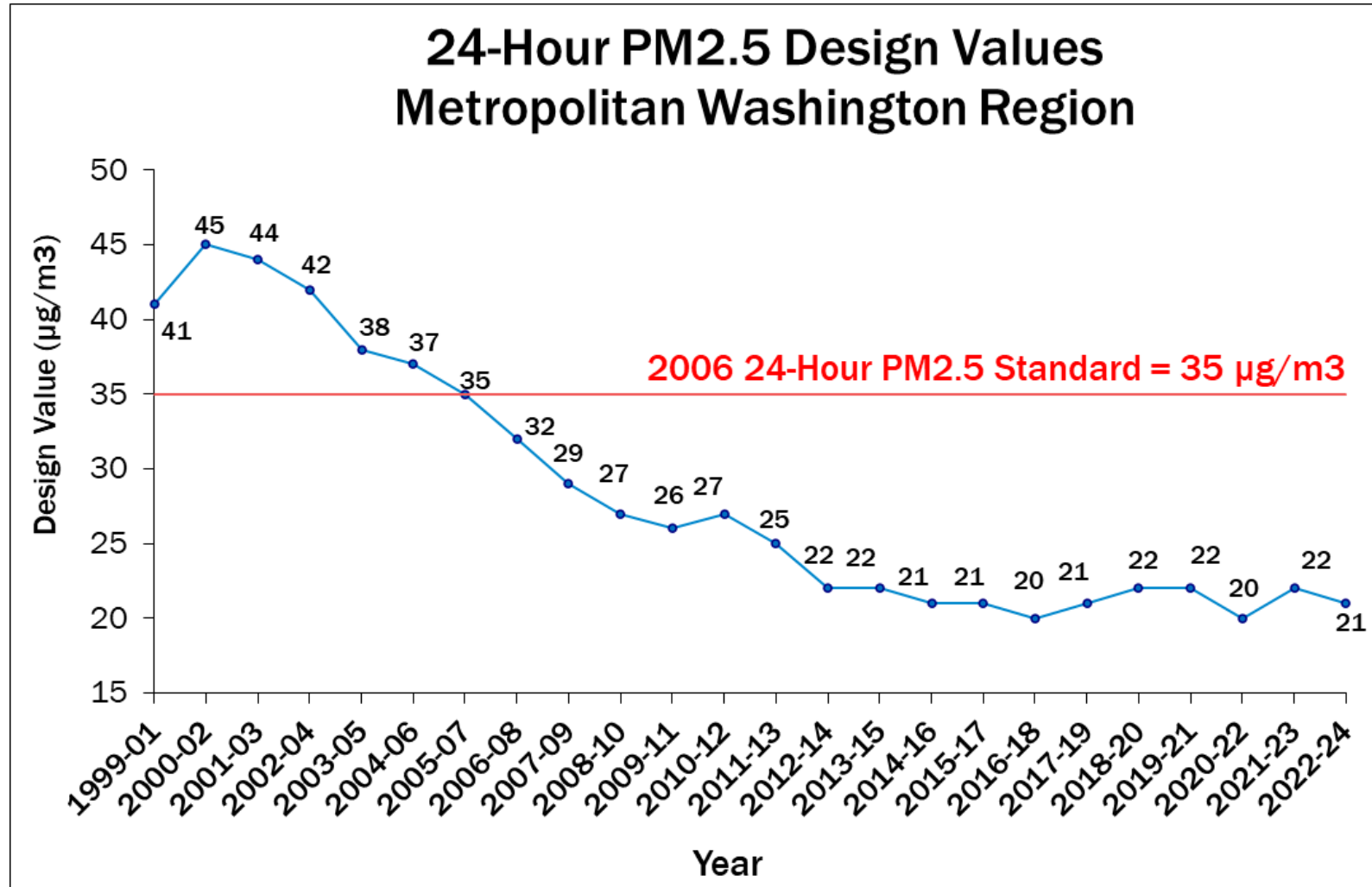
PM2.5 Exceedance Trend



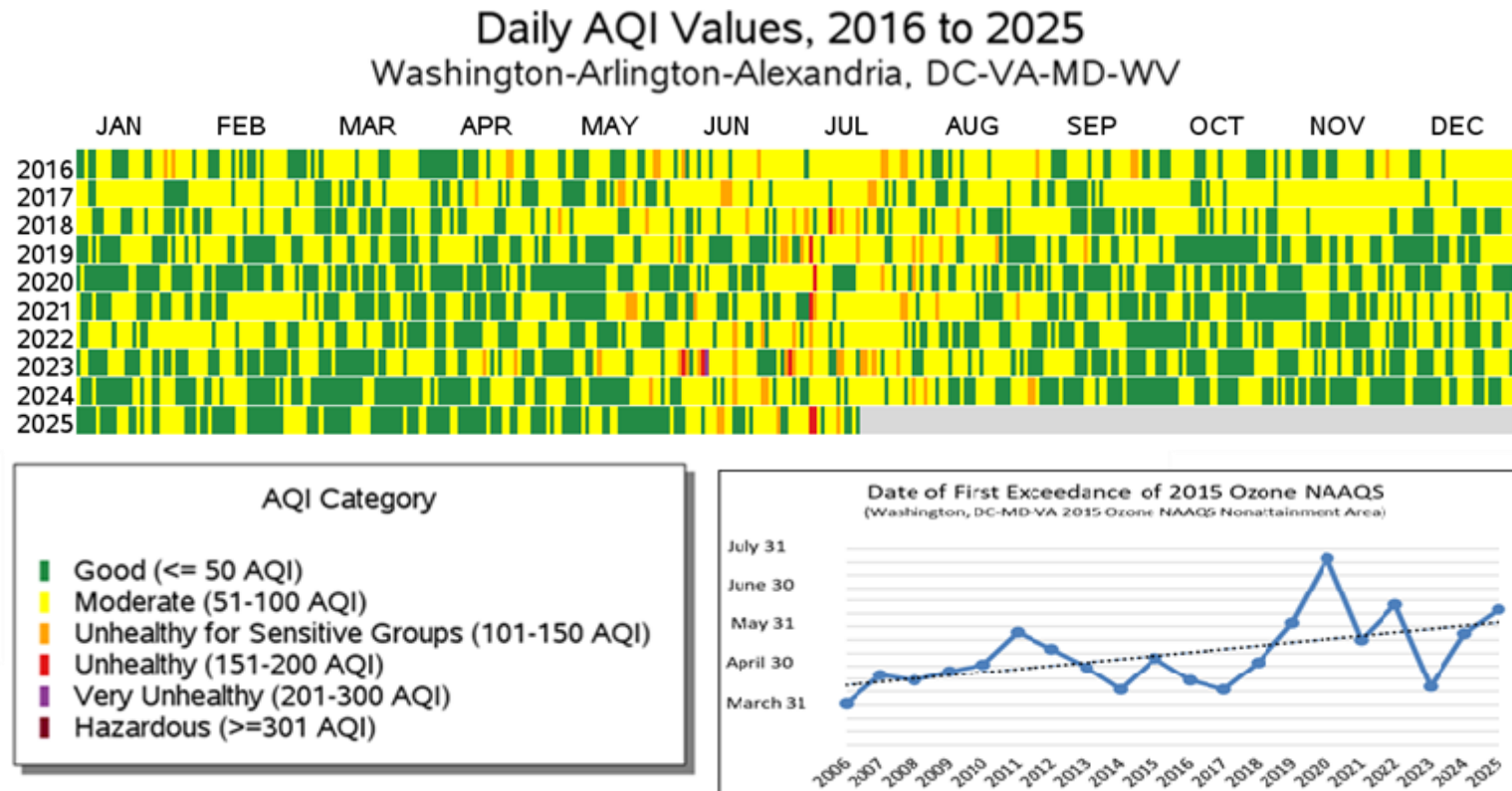
Annual PM2.5 Design Value Trend



24-Hour PM2.5 Design Value Trend



AQI Value Trends



Source: U.S. EPA AirData <<https://www.epa.gov/air-data>>

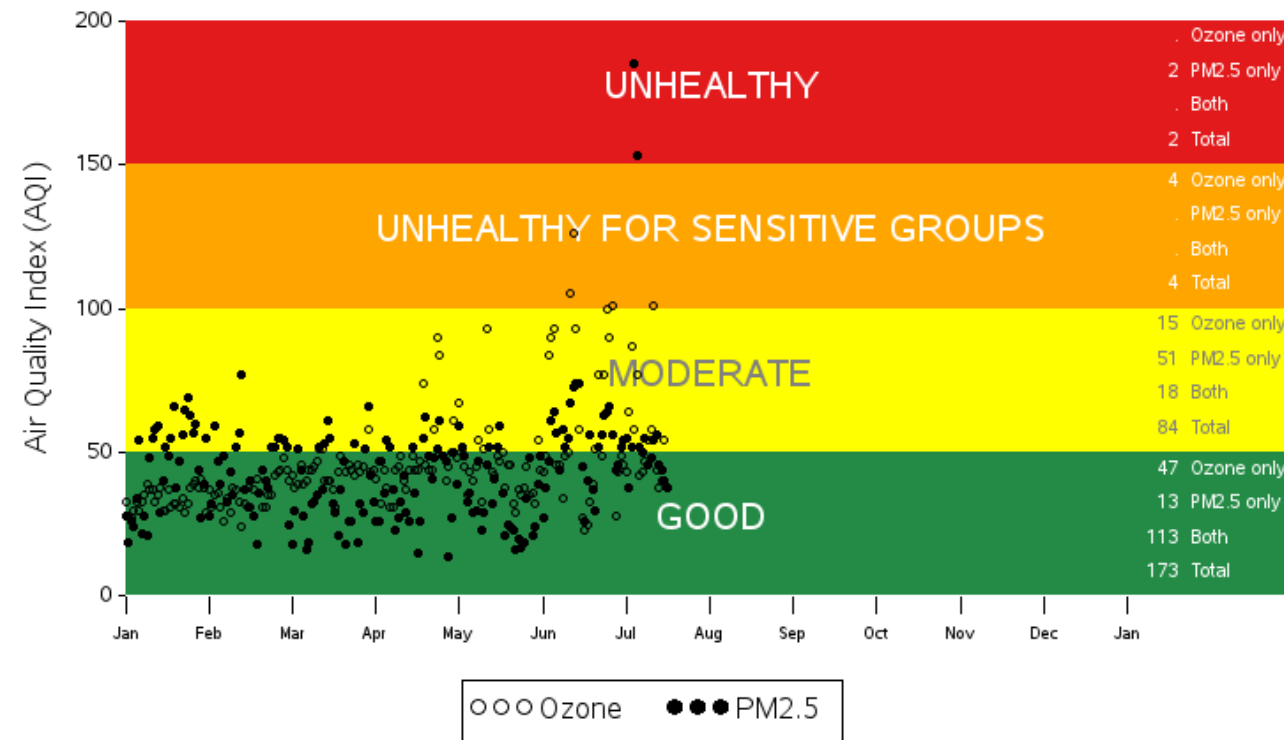
Generated: July 17, 2025

Note: Data shown above is for combined AQI values for ozone, PM_{2.5}, PM₁₀, CO, NO₂, and SO₂ for the Washington-Arlington-Alexandria CBSA.



AQI Values - 2025

Daily Ozone and PM2.5 AQI Values in 2025
Washington-Arlington-Alexandria, DC-VA-MD-WV

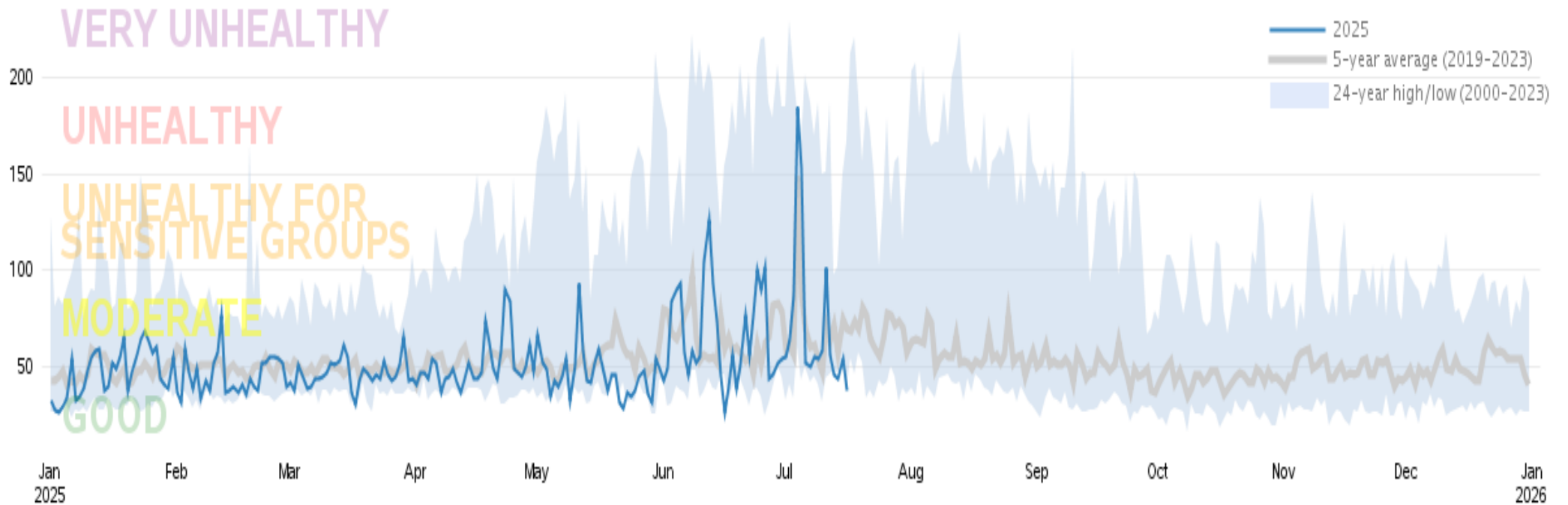


Source: U.S. EPA AirData <<https://www.epa.gov/air-data>>
Generated: July 17, 2025

AQI Value Trends

Combined Ozone and PM2.5 Daily AQI Values

Washington-Arlington-Alexandria, DC-VA-MD-WV



Source: U.S. EPA AirData <<https://www.epa.gov/air-data>>

Generated: July 17, 2025

Note: Data shown above is for the Washington-Arlington-Alexandria CBSA.



Metropolitan Washington
Council of Governments

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

Monitor	2022-24 Design Value (ppb)	Critical 4 th High Ozone (ppb) in 2025	Current 4 th High Ozone (ppb) in 2025 (Top 3 Values)
McMillan (DC)	69	72	67 (71, 68, 68)
Prince George's Equestrian Center (MD)	68	72	66 (78, 72, 71)
Beltsville (MD)	68	73	65 (75, 68, 65)
Arlington (VA)	67	71	66 (71, 69, 67)

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