

OZONE SEASON SUMMARY 2025

Sunil Kumar
Principal Environmental Engineer

MWAQC
May 28, 2025

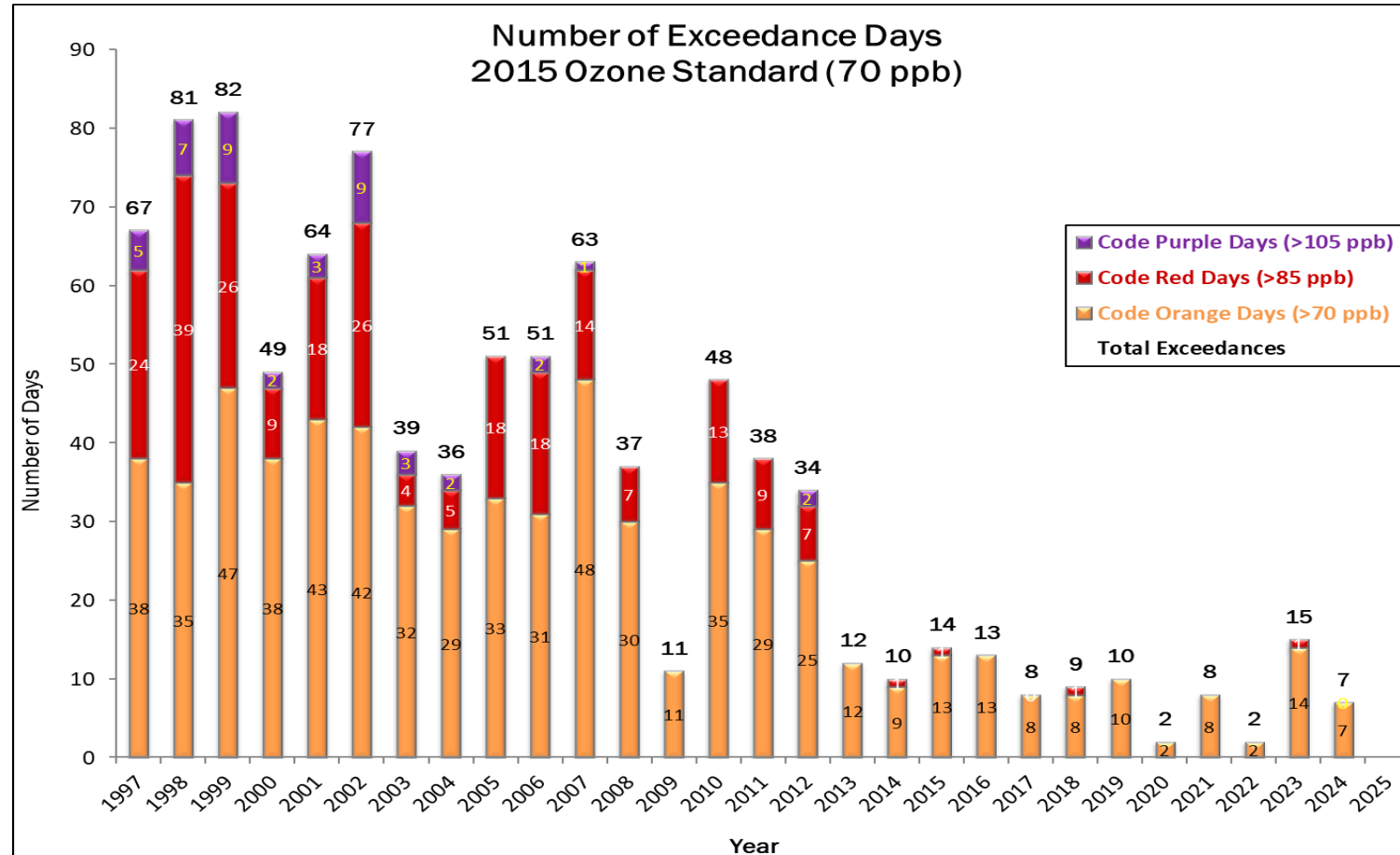
Peak 8-Hour Average Ozone Levels (ppb)

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	54	49
04	05	06	07	08	09	10
38	46	43	49	56	36	55
11	12	13	14	15	16	17
68	57	45				
18	19	20	21	22	23	24
25	26	27	28	29	30	31

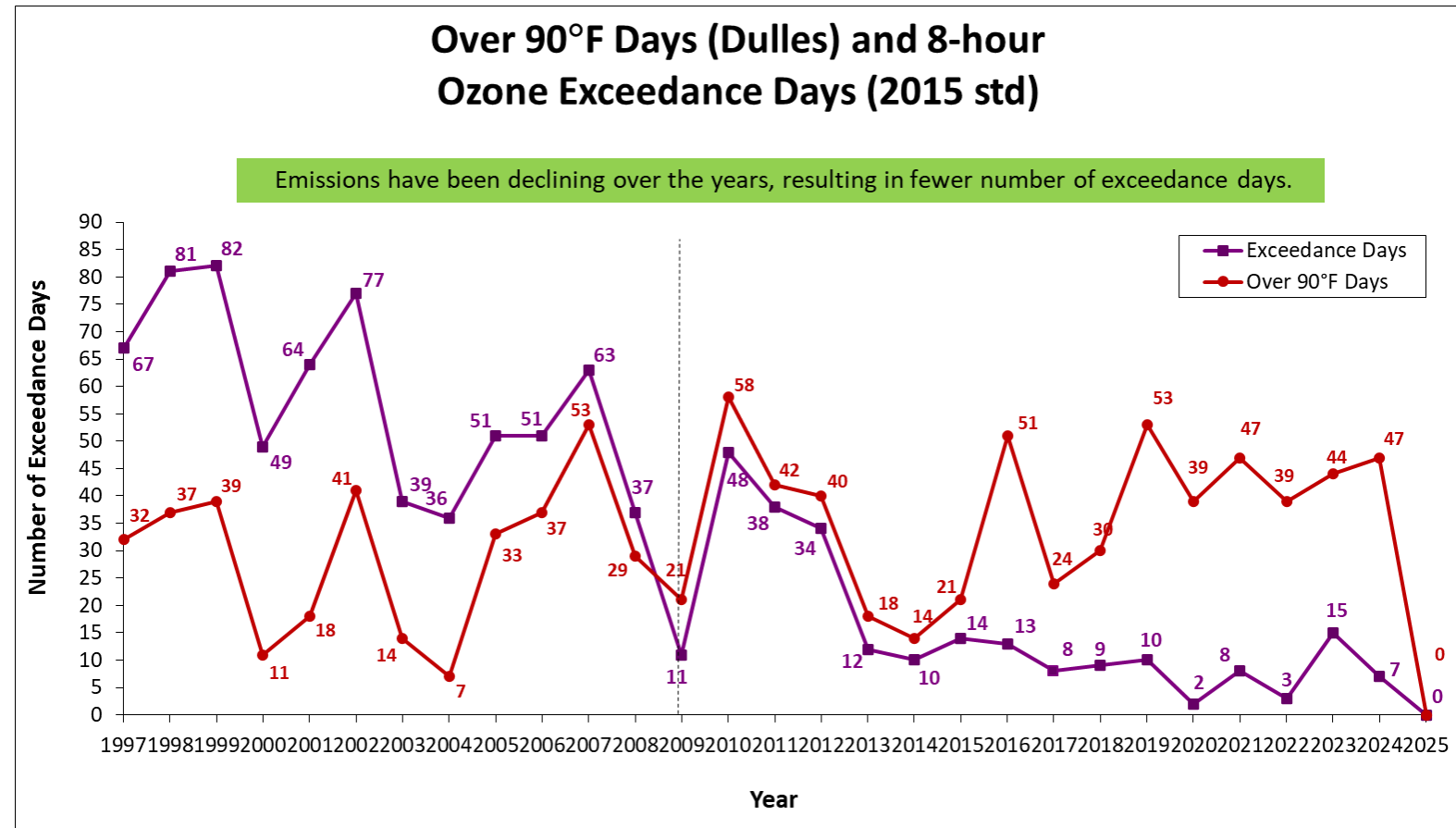
Ozone Exceedance Trend



* 2025 Data is preliminary.

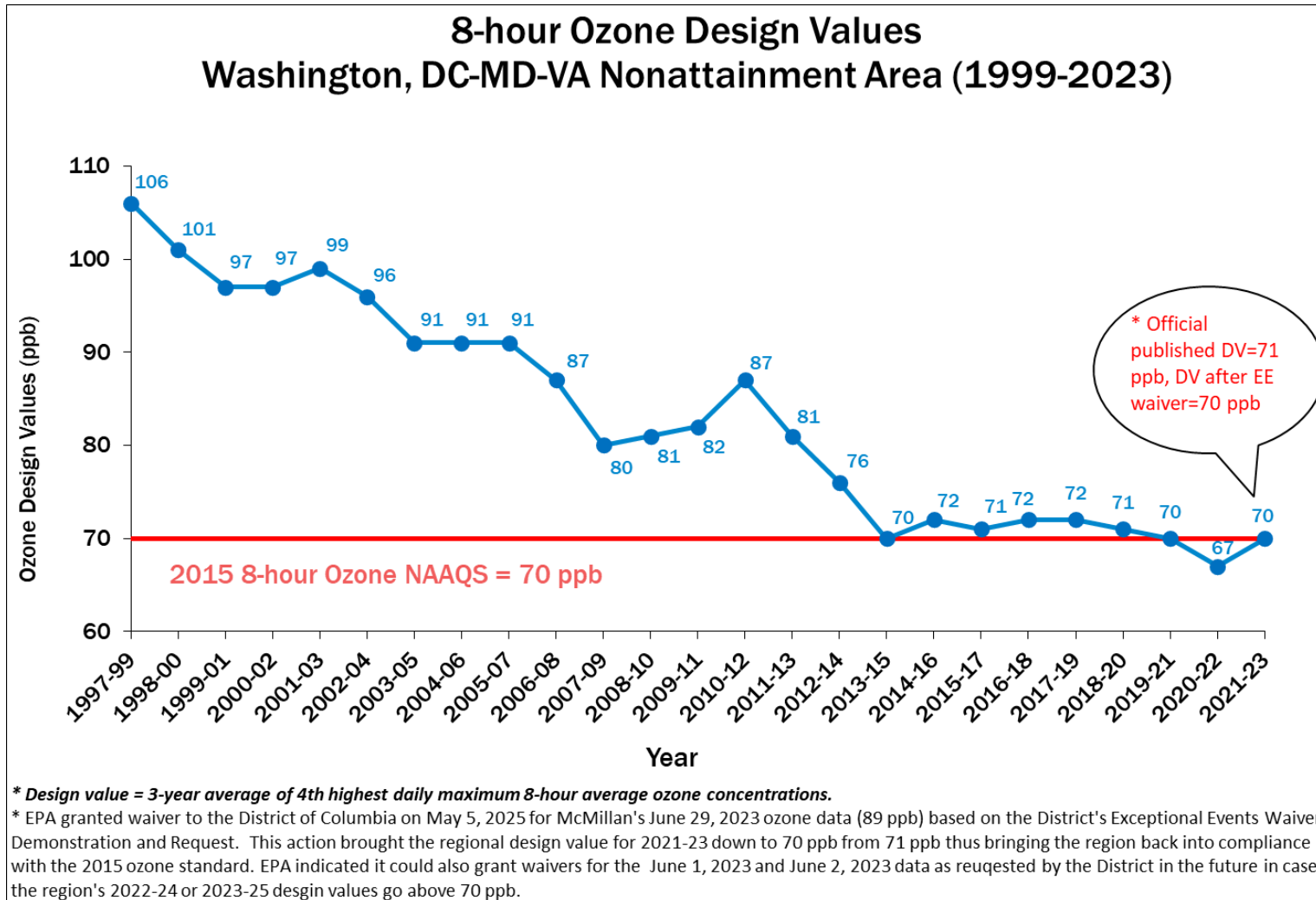


Ozone & Temperature Trend



* 2025 Data is preliminary.

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

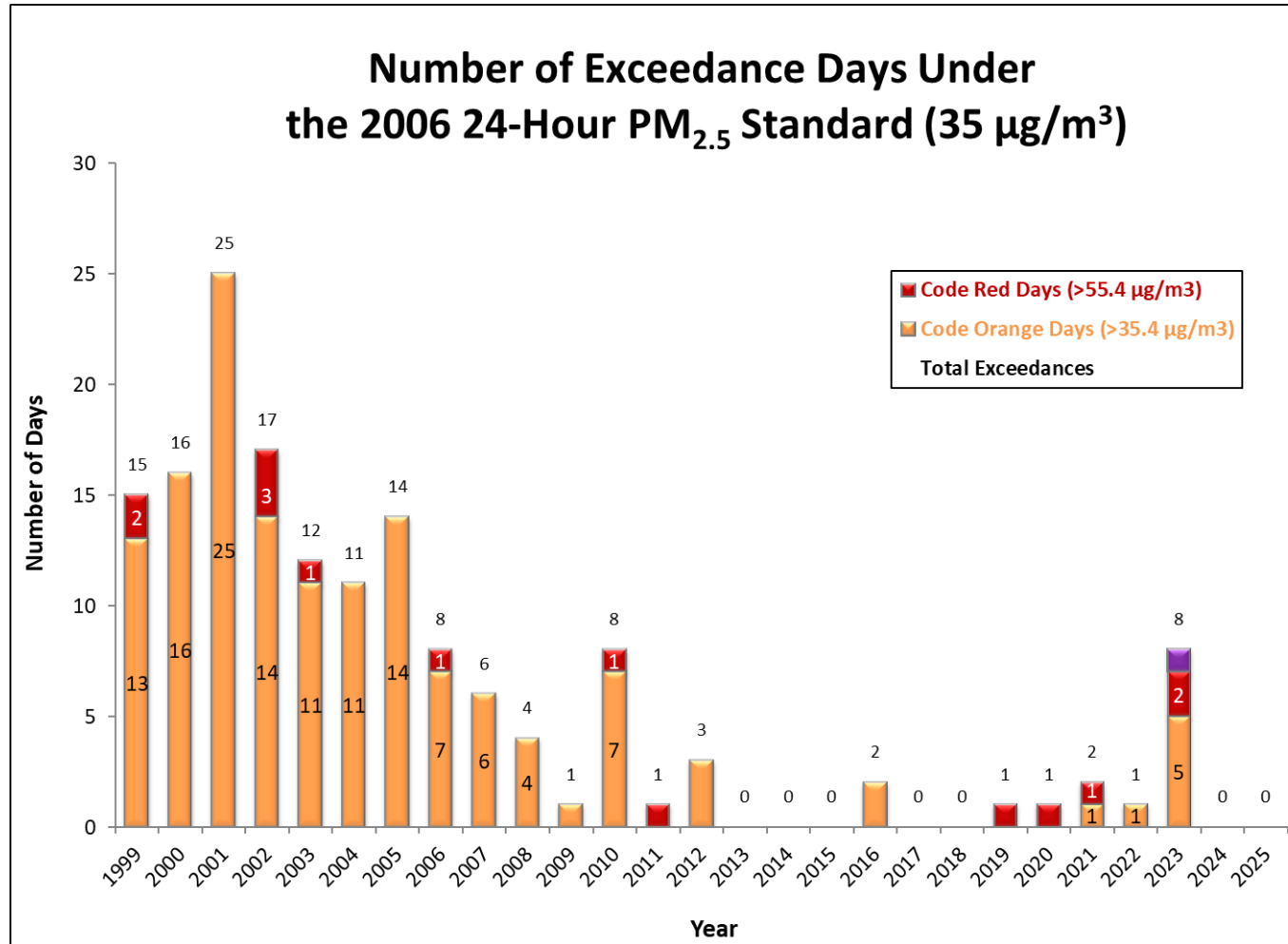
24-Hour Average PM2.5 Levels (µg/m³)

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				
18	19	20	21	22	23	24
25	26	27	28	29	30	31

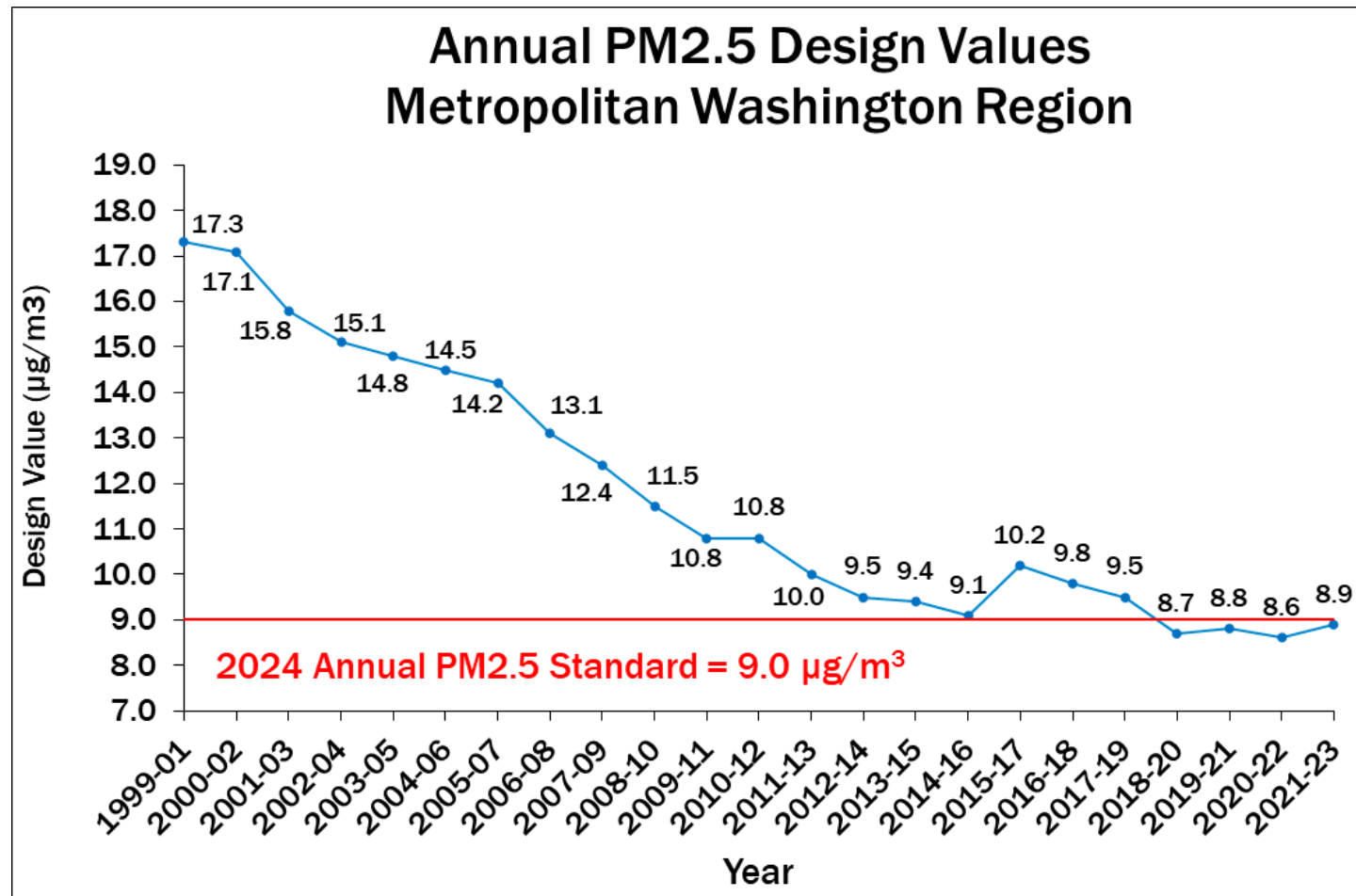
PM2.5 Exceedance Trend



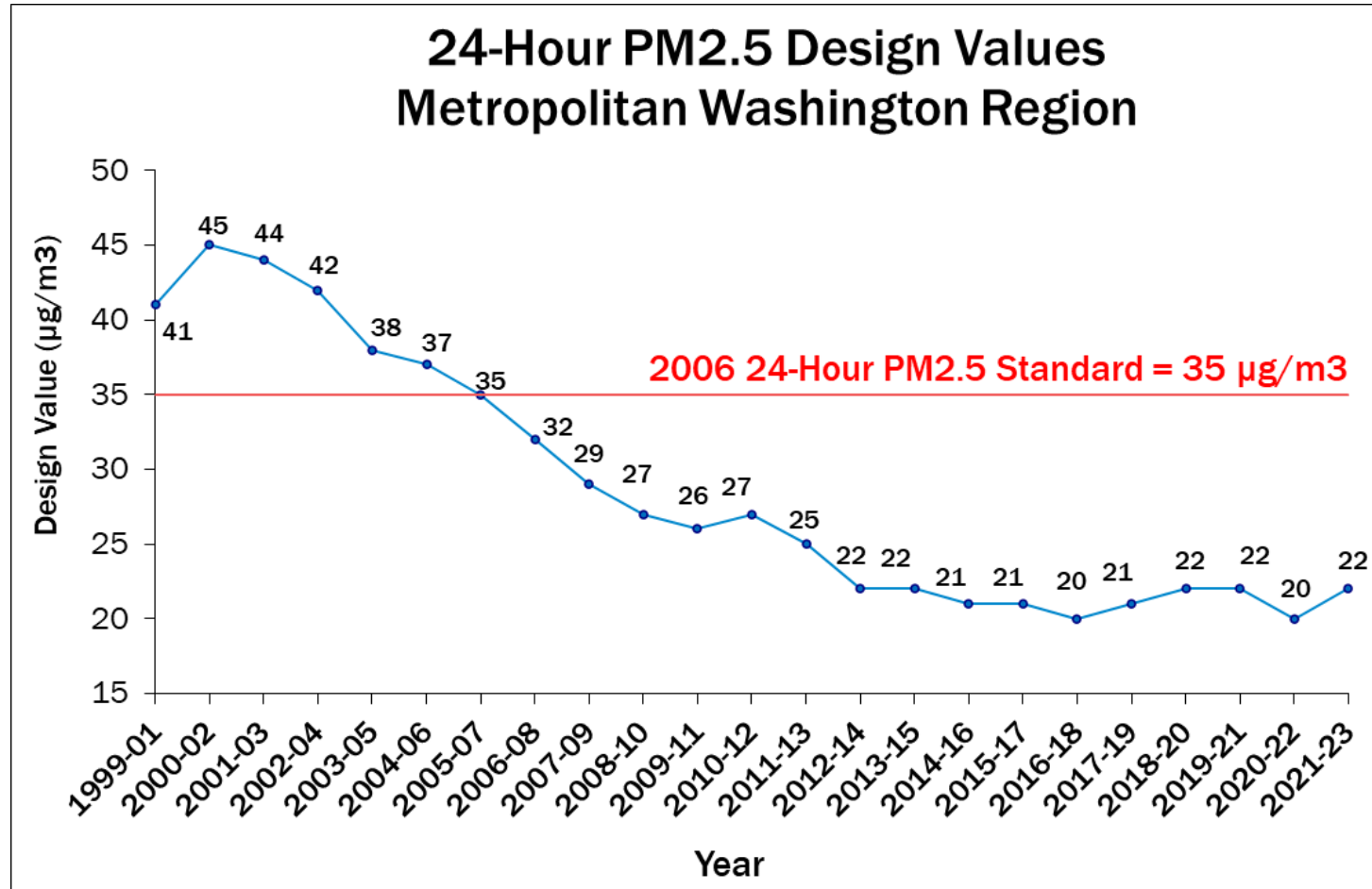
* 2025 Data is preliminary.



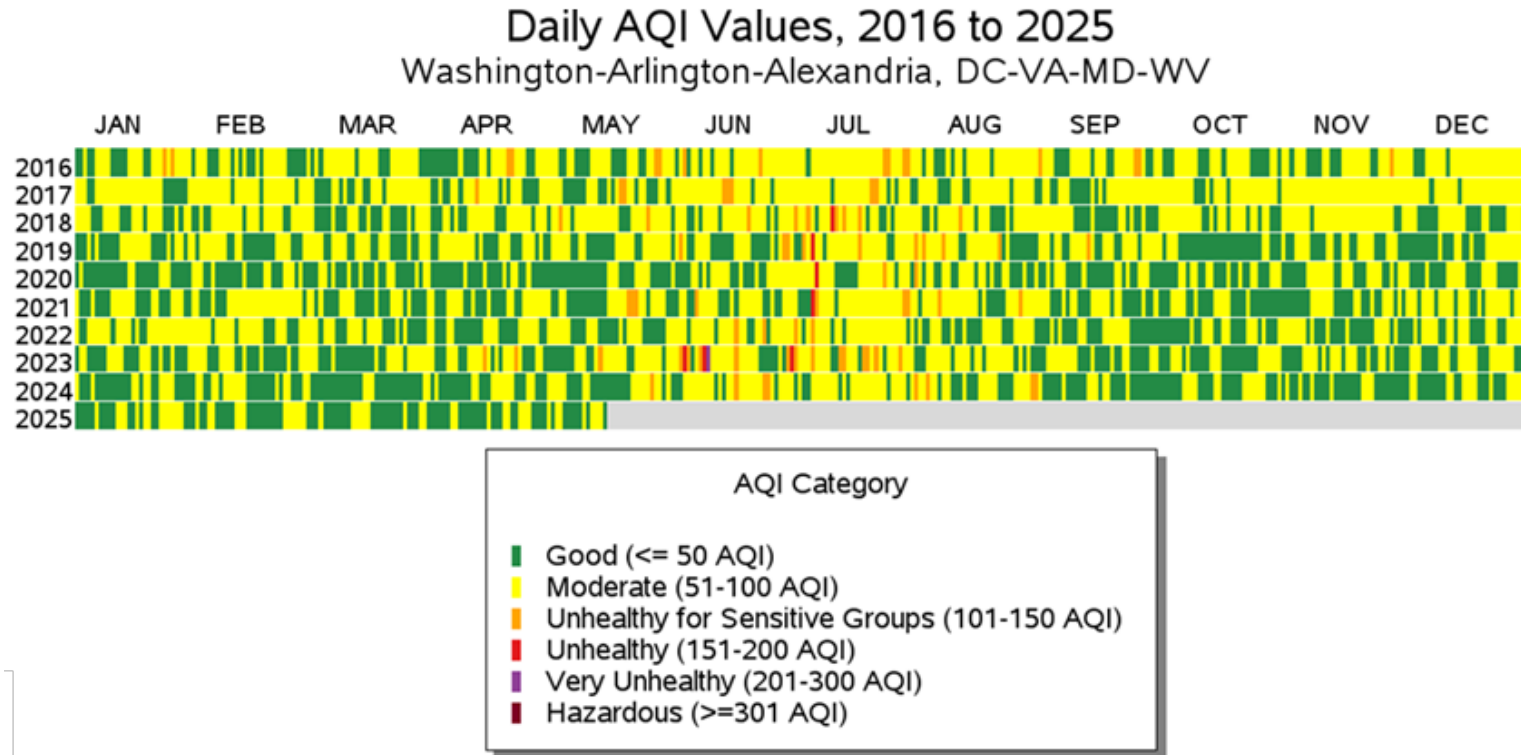
Annual PM2.5 Design Value Trend



24-Hour PM2.5 Design Value Trend



AQI Value Trends



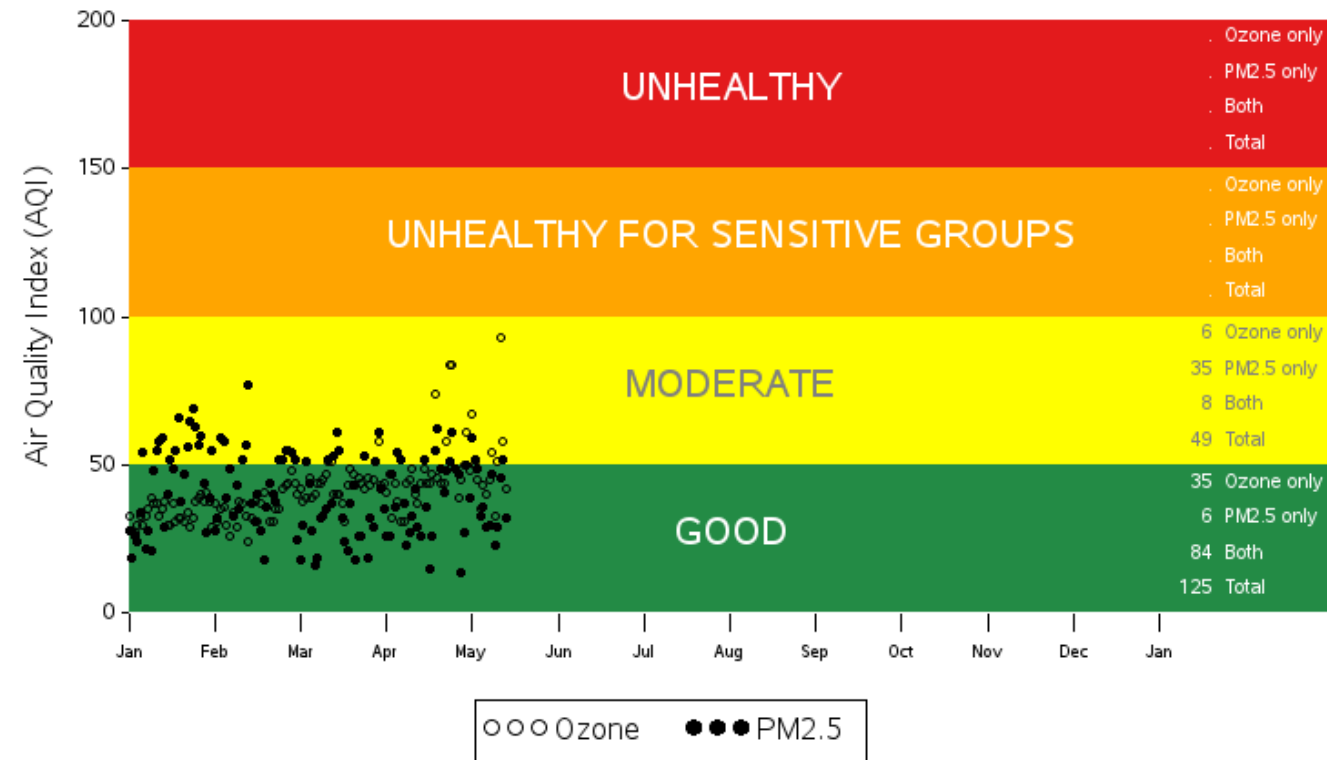
Source: U.S. EPA AirData <<https://www.epa.gov/air-data>>
Generated: May 14, 2025

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: May 14, 2025

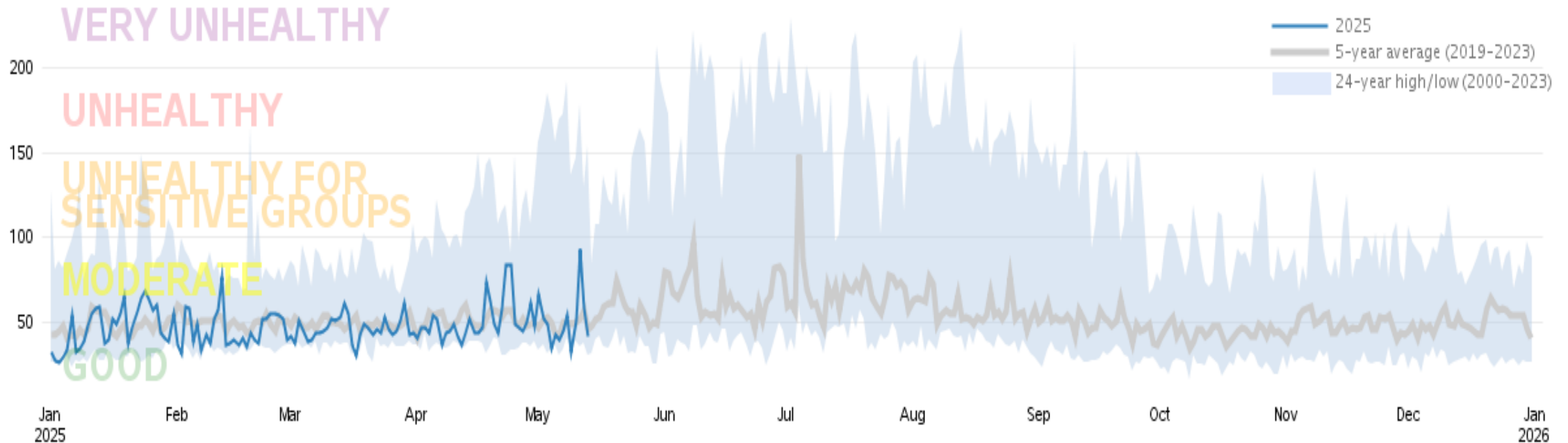


Metropolitan Washington
Council of Governments

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: May 14, 2025

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

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 May 14, 2025.

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