

OZONE SEASON SUMMARY 2024

Sunil Kumar
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Air & Climate Public Advisory Committee
May 20, 2024

Peak 8-Hour Average Ozone Levels (ppb)

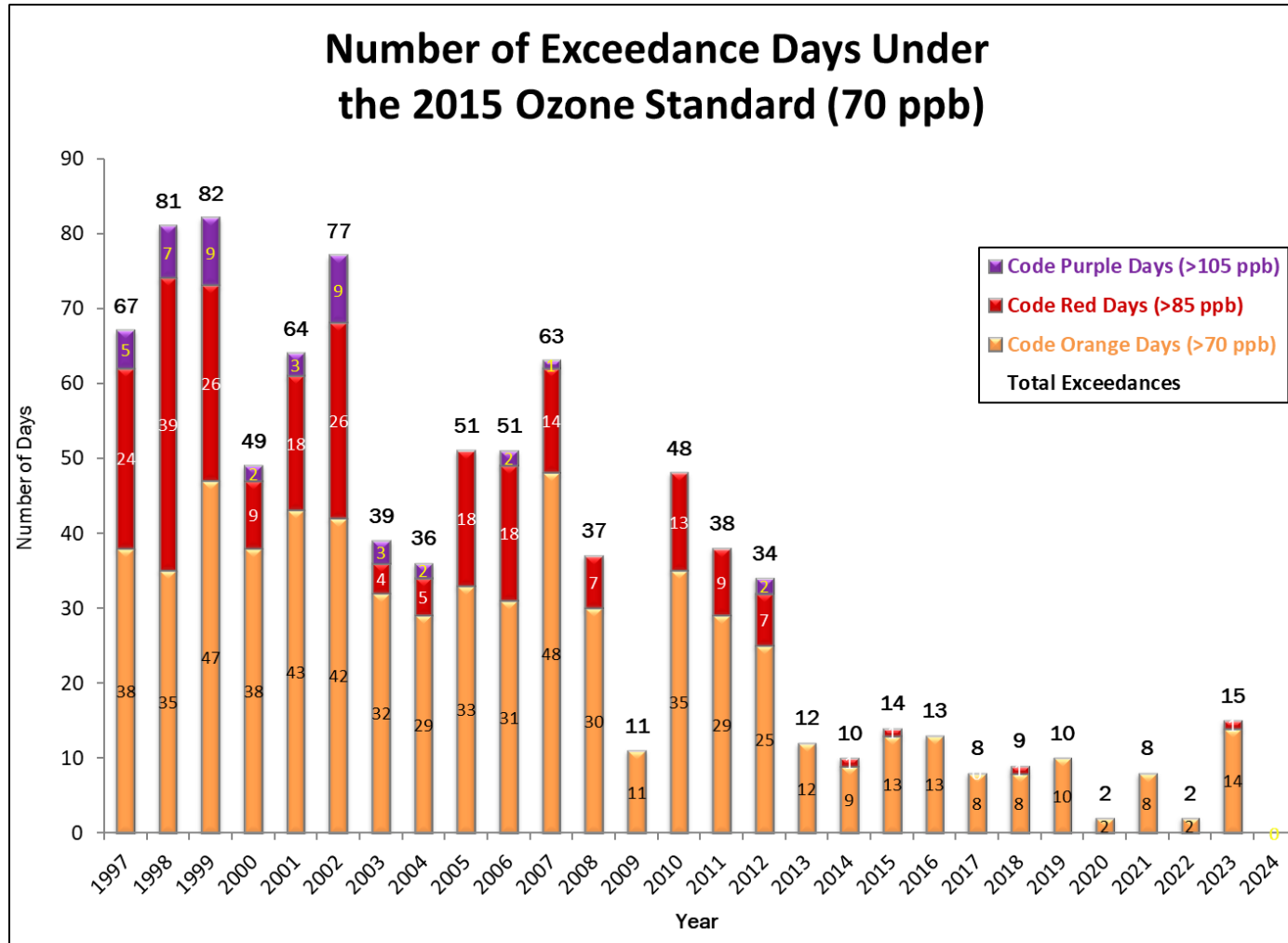
March 2024						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
25	26	27	28	29	01	02
					44	40
03	04	05	06	07	08	09
42	44	33	24	39	38	39
10	11	12	13	14	15	16
40	46	54	57	63	54	47
17	18	19	20	21	22	23
48	43	42	52	44	42	42
24	25	26	27	28	29	30
46	48	42	34	46	55	53
31						
52						

April 2024						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
31	01	02	03	04	05	06
	43	44	43	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	38	53
21	22	23	24	25	26	27
40	51	56	58	41	44	41
28	29	30				
53	60	59				

May 2024						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28	29	30	01	02	03	04
			62	70	52	32
05	06	07	08	09	10	11
31	34	46	52	49	41	42
12	13	14	15	16	17	18
41	51					
19	20	21	22	23	24	25
26	27	28	29	30	31	

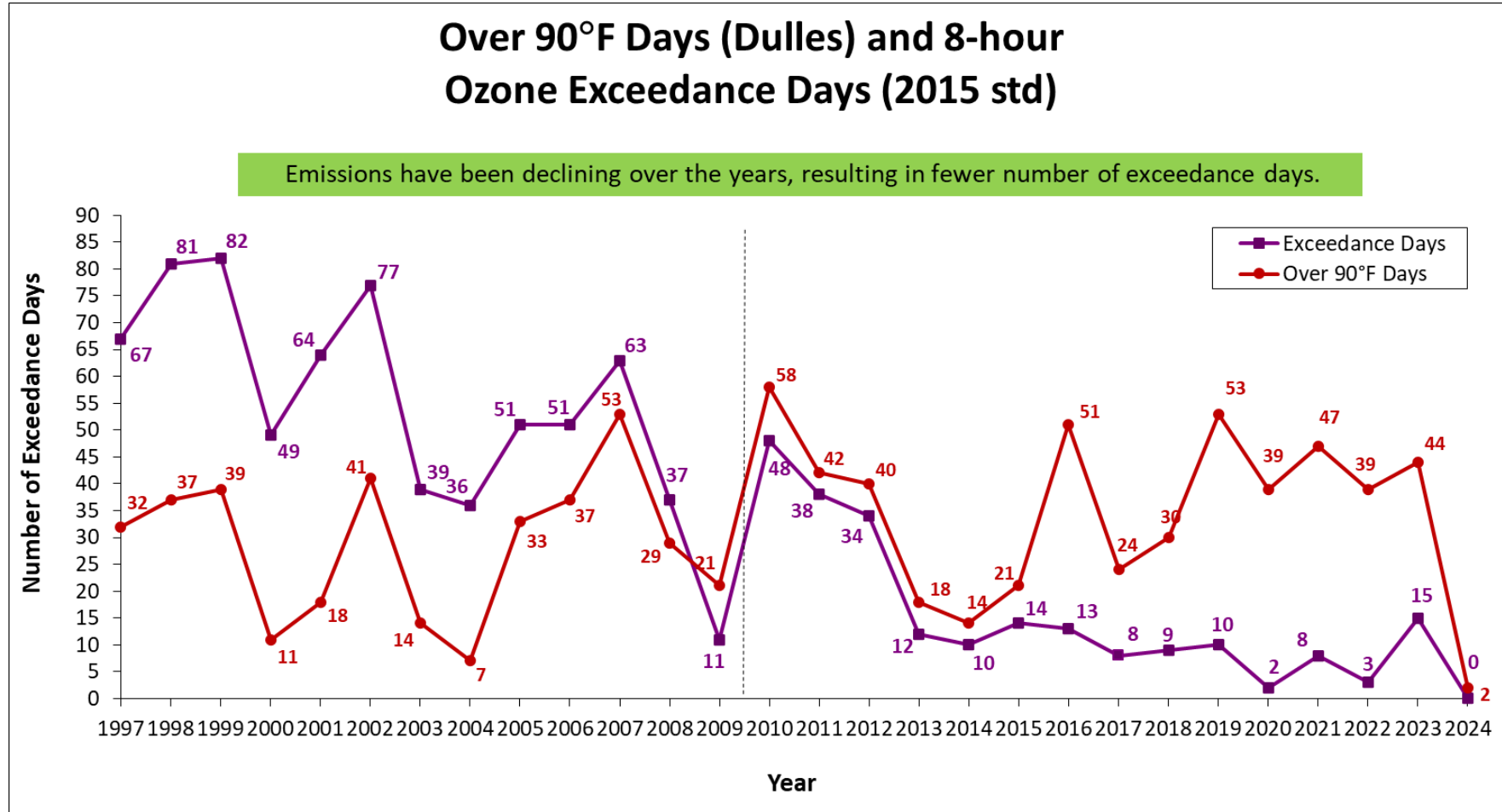
* Data is preliminary.

Ozone Exceedance Trend



* 2024 Data is preliminary.

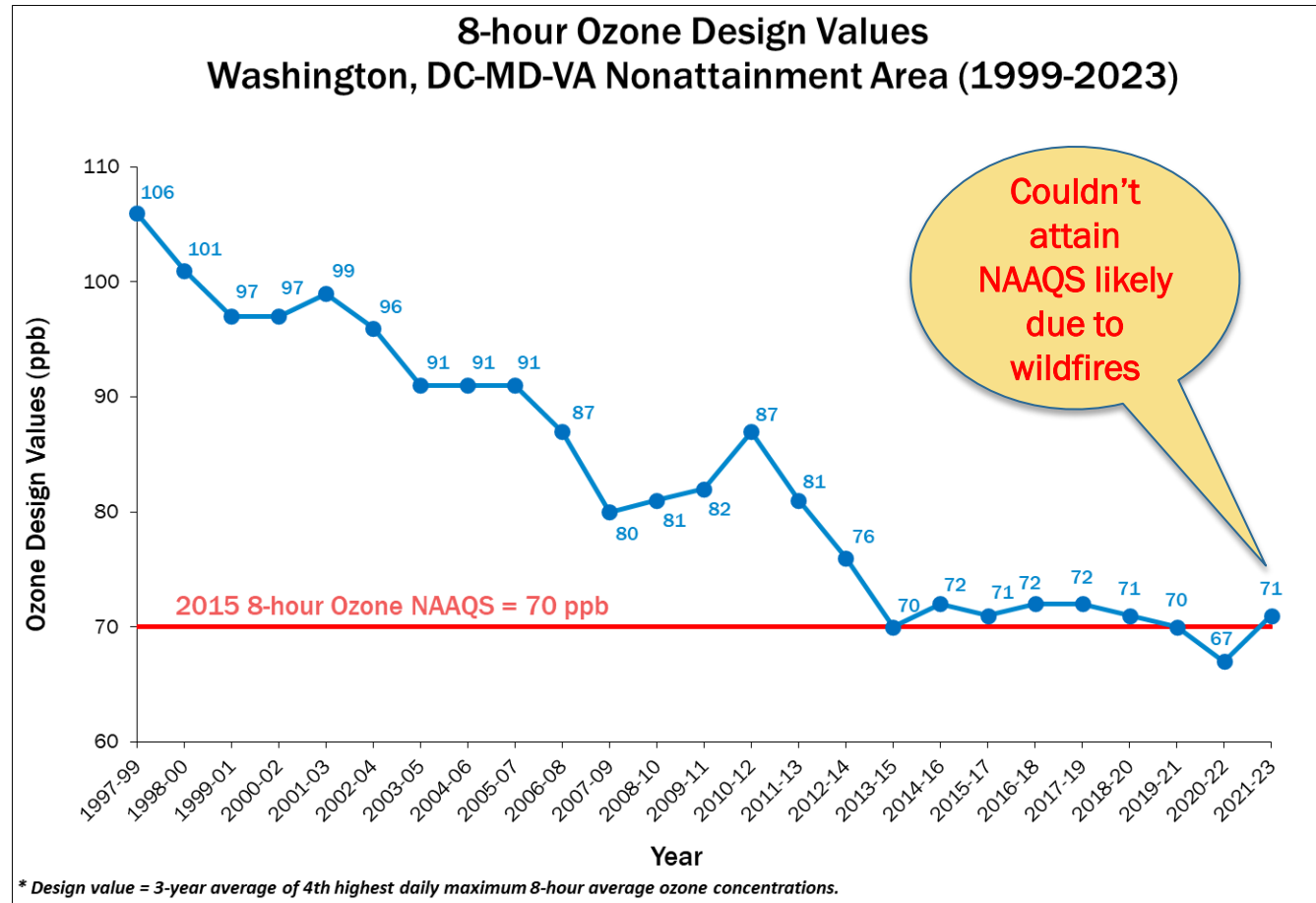
Ozone & Temperature Trend



* 2024 Data is preliminary.



Ozone Design Value Trends



Note: 2021-23 data is preliminary. States requested “Exceptional Events Exemption” to exclude data influenced by wildfires. The region is expected to attain after EPA has granted that request.

24-Hour Average PM2.5 Levels ($\mu\text{g}/\text{m}^3$)

March 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						

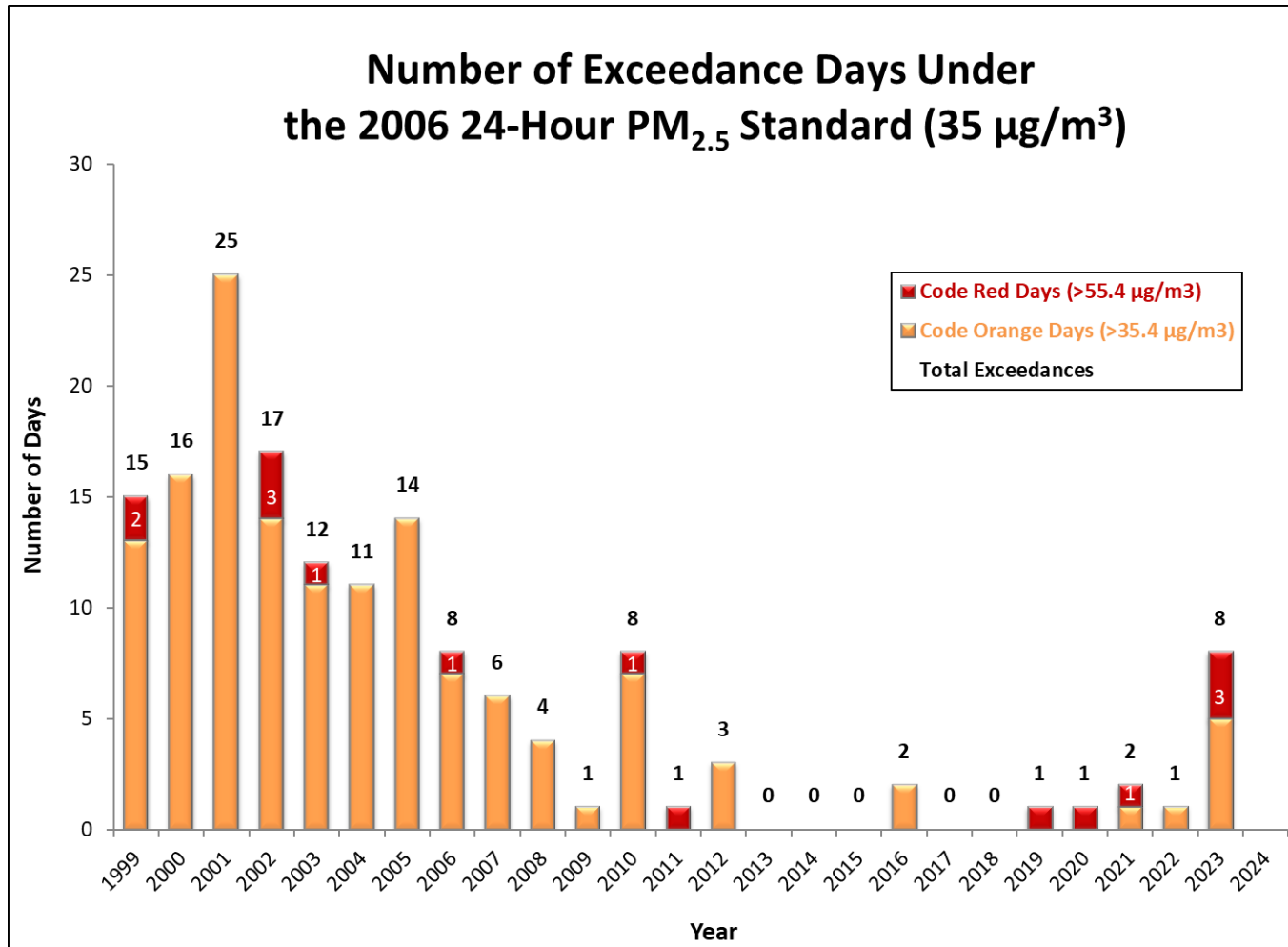
April 2024						
Sunday						
31	01	02	03	04	05	06
	8.3	6.1	3.7	3.4	2.0	3.0
07	08	09	10	11	12	13
3.3	9.0	13.7	9.5	8.2	3.0	3.2
14	15	16	17	18	19	20
7.0	10.9	6.3	10.9	10.9	12.7	8.1
21	22	23	24	25	26	27
4.1	5.6	6.8	6.1	5.7	5.6	6.7
28	29	30				
12.0	11.4	13.9				

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

A new tougher annual PM2.5 standard (9.0 $\mu\text{g}/\text{m}^3$) became effective May 6, 2024. This may lead to an increase in code yellow (moderate), code red (unhealthy), and worse (very unhealthy and hazardous) PM2.5 days.

Color codes have been assigned to different days here based on the new standard. Data is preliminary as of May 14, 2024.

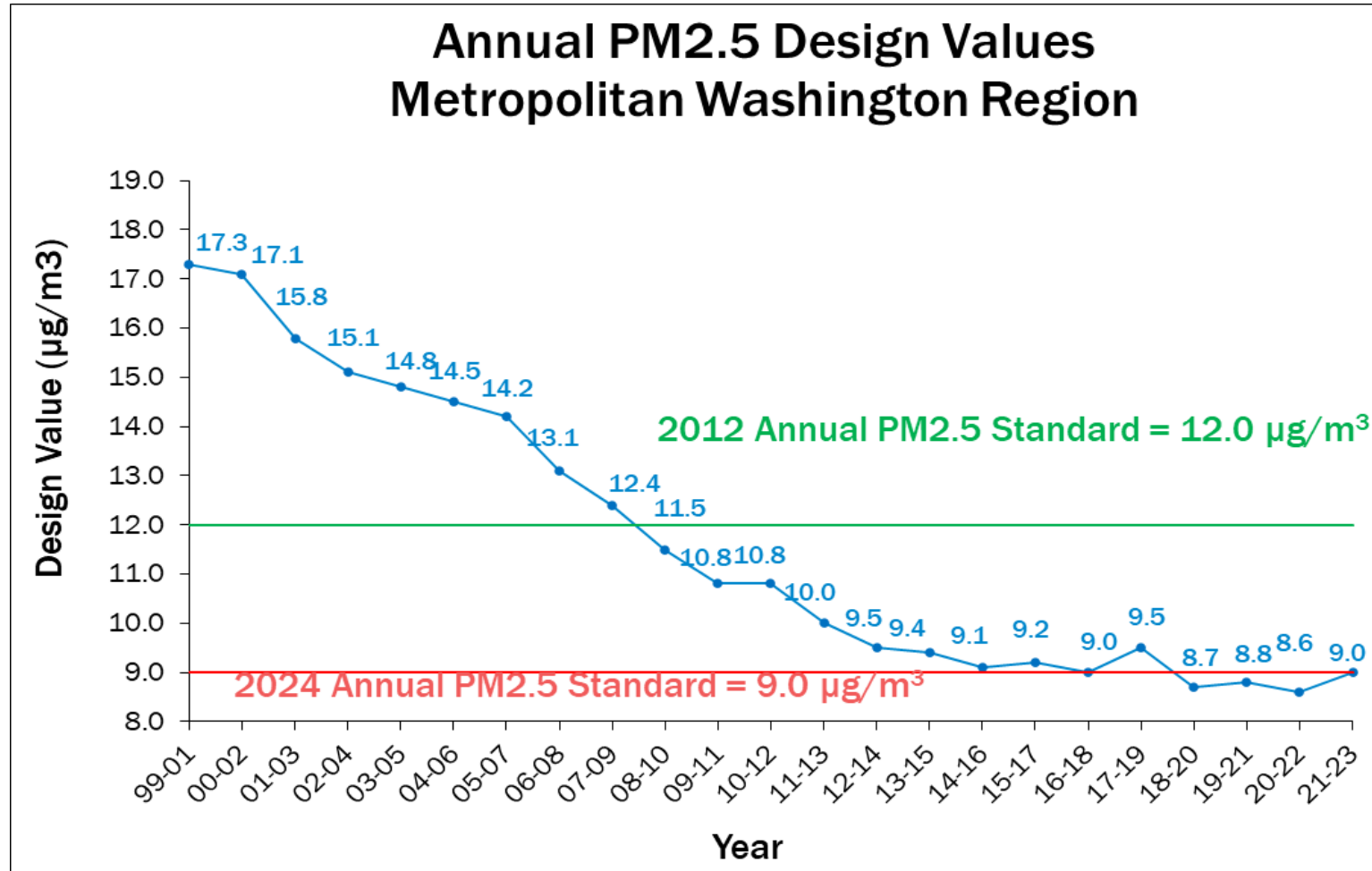
PM2.5 Exceedance Trend



* 2024 Data is preliminary.



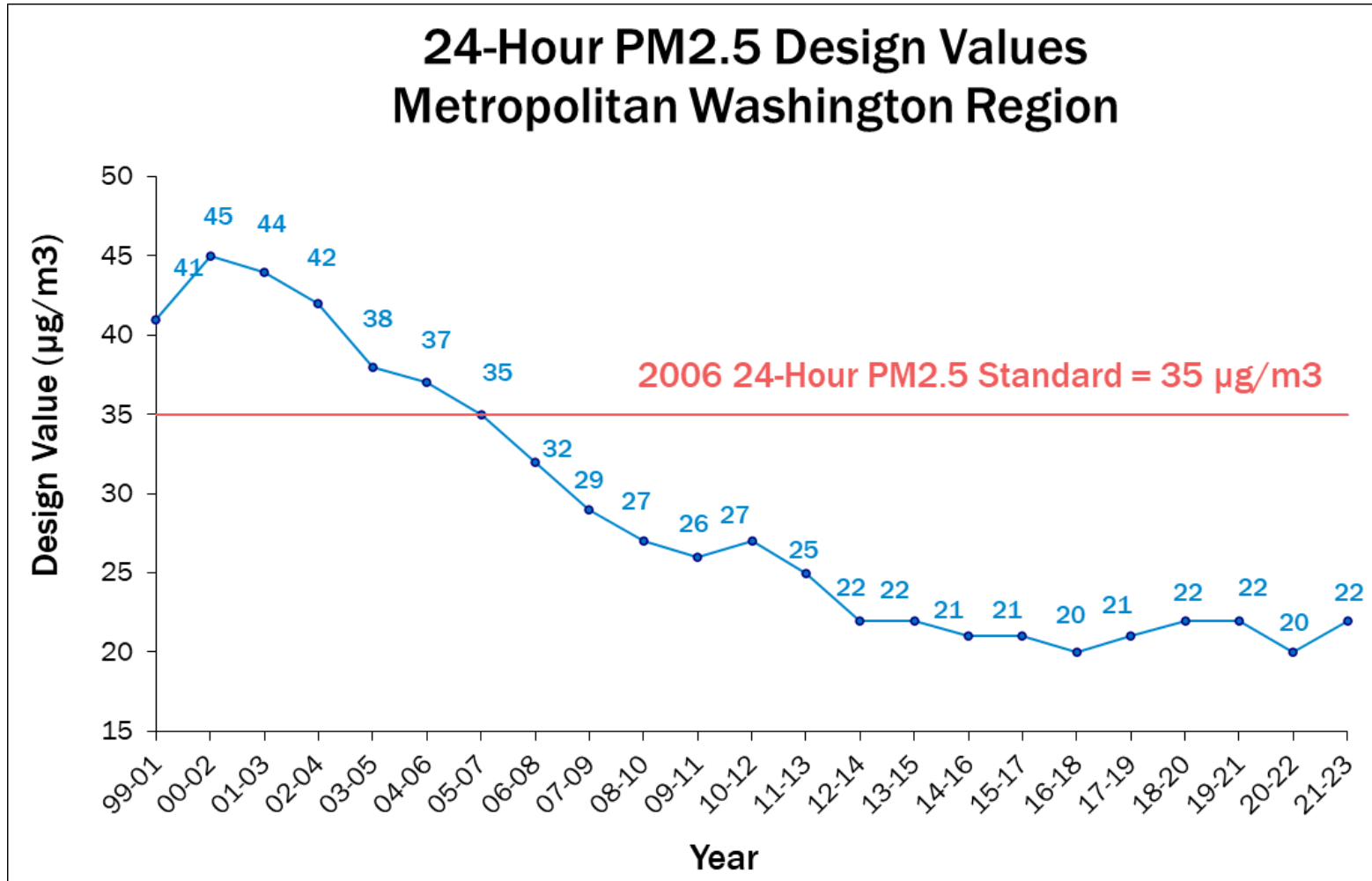
Annual PM2.5 Design Value Trend



New annual PM2.5 standard (9.0 ug/m3) became effective May 6, 2024

* 2021-23 Data is preliminary.

24-Hour PM2.5 Design Value Trend

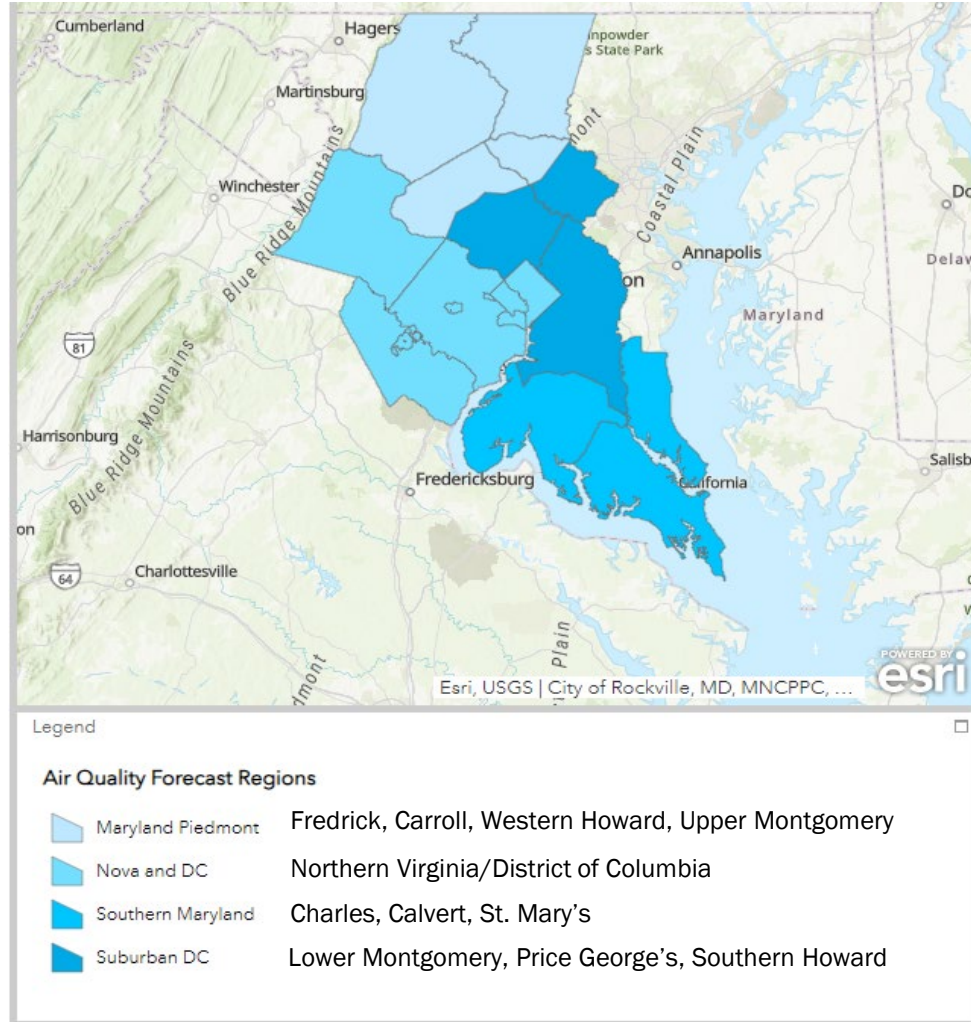


* 2021-23 Data is preliminary.

Status - 2015 Ozone NAAQS Attainment

- Washington region was designated as a Marginal Nonattainment Area for the 2015 Ozone NAAQS effective August 3, 2018.
- It was reclassified to Moderate Nonattainment Area on November 7, 2022, following its failure to attain by the deadline.
- Current draft 2023 data shows nonattainment largely due to smoke originating from wildfires in Canada. States requested EPA to grant waiver for smoke influenced high ozone days.
- If EPA grants a waiver, then the region will need to submit a request to redesignate it to attainment along with a maintenance plan to demonstrate that it will keep attaining the NAAQS in the future.
- The region intends to start laying the groundwork for the above plan in June 2024.

New Air Quality Forecast Subregions



Washington DC forecast region has now been divided into 4 separate subregions to provide more accurate forecasts that reflect local conditions.



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