

OZONE SEASON SUMMARY 2017

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MWAQC
September 27th, 2017

Peak 8-Hour Average Ozone Levels (ppb)

April 2017						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
26	27	28	29	30	31	01 39
02 56	03 50	04 52	05 57	06 47	07 43	08 57
09 62	10 68	11 71	12 61	13 54	14 64	15 57
16 55	17 45	18 58	19 43	20 48	21 45	22 28
23 33	24 37	25 35	26 35	27 57	28 61	29 49
30 46	01	02	03	04	05	06

May 2017						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30	01 35	02 55	03 49	04 48	05 40	06 33
07 43	08 54	09 58	10 68	11 48	12 35	13 34
14 61	15 51	16 64	17 76	18 72	19 55	20 43
21 45	22 35	23 33	24 50	25 46	26 48	27 49
28 49	29 48	30 43	31 57	01	02	03
04	05	06	07	08	09	10

June 2017						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28	29	30	31	01 61	02 66	03 63
04 62	05 50	06 53	07 41	08 59	09 62	10 70
11 61	12 74	13 72	14 73	15 64	16 58	17 43
18 45	19 36	20 57	21 61	22 60	23 29	24 52
25 51	26 55	27 53	28 56	29 65	30 63	01
02	03	04	05	06	07	08

July 2017						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
25	26	27	28	29	30	01 43
02 59	03 64	04 64	05 56	06 36	07 57	08 58
09 51	10 56	11 56	12 58	13 56	14 59	15 57
16 55	17 56	18 66	19 76	20 80	21 68	22 63
23 48	24 60	25 43	26 57	27 56	28 46	29 36
30 47	31 61	01	02	03	04	05

8 Code Orange Days, 71 Code Yellow Days, 95 Code Green Days

Analysis is based on draft data as of September 22nd, 2017. Data is subject to change



Peak 8-Hour Average Ozone Levels (ppb)

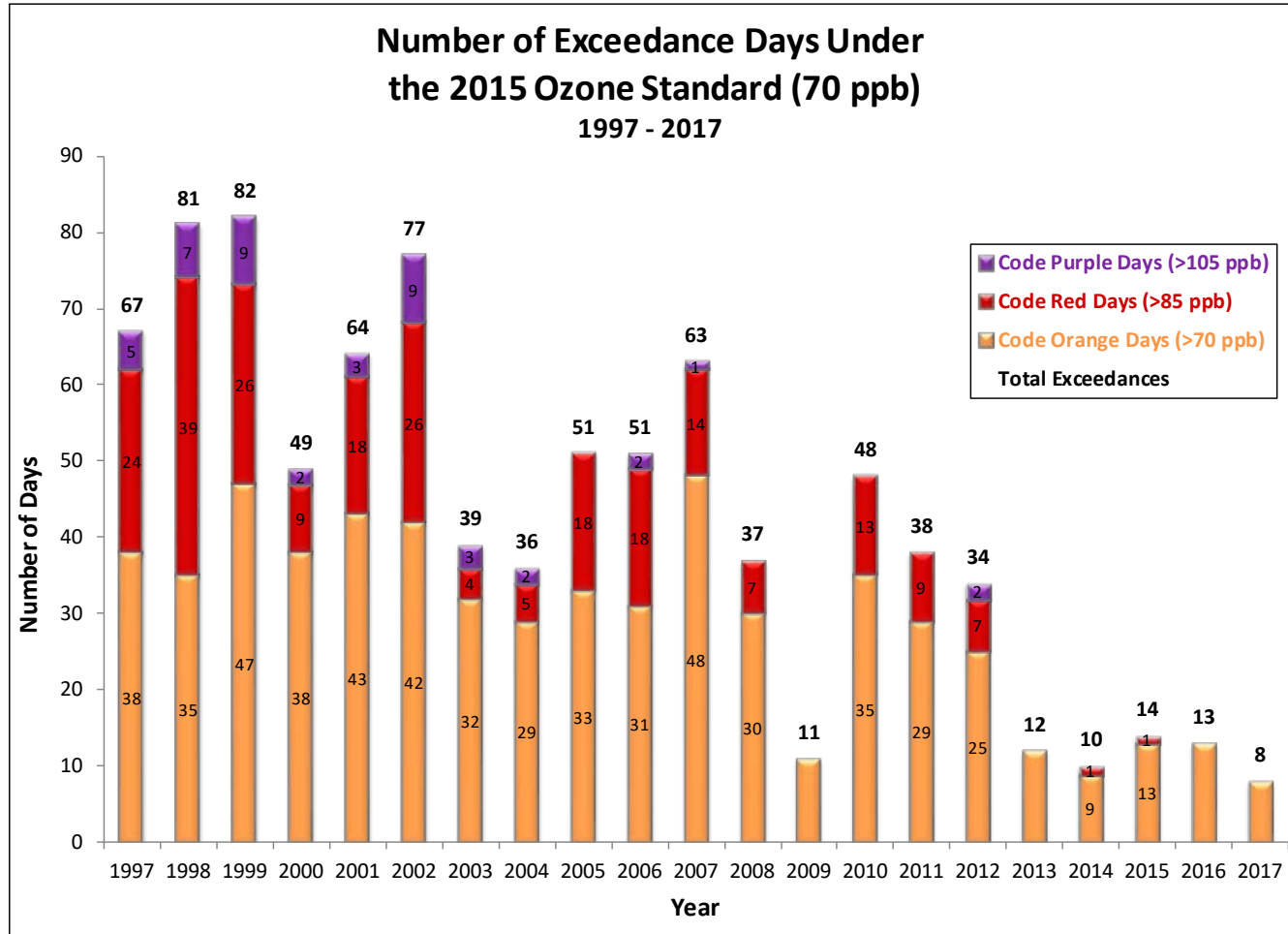
August 2017						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30	31	01	02	03	04	05
		63	58	63	65	43
06	07	08	09	10	11	12
47	38	43	64	60	43	44
13	14	15	16	17	18	19
55	41	34	69	59	39	55
20	21	22	23	24	25	26
59	60	60	49	51	58	52
27	28	29	30	31	01	02
53	45	33	47	62		
03	04	05	06	07	08	09

September 2017						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
27	28	29	30	31	01	02
					31	35
03	04	05	06	07	08	09
37	48	51	30	37	41	34
10	11	12	13	14	15	16
31	36	48	31	46	45	52
17	18	19	20	21	22	23
47	51	30	44	42		
24	25	26	27	28	29	30
01	02	03	04	05	06	07

8 Code Orange Days, 71 Code Yellow Days, 95 Code Green Days

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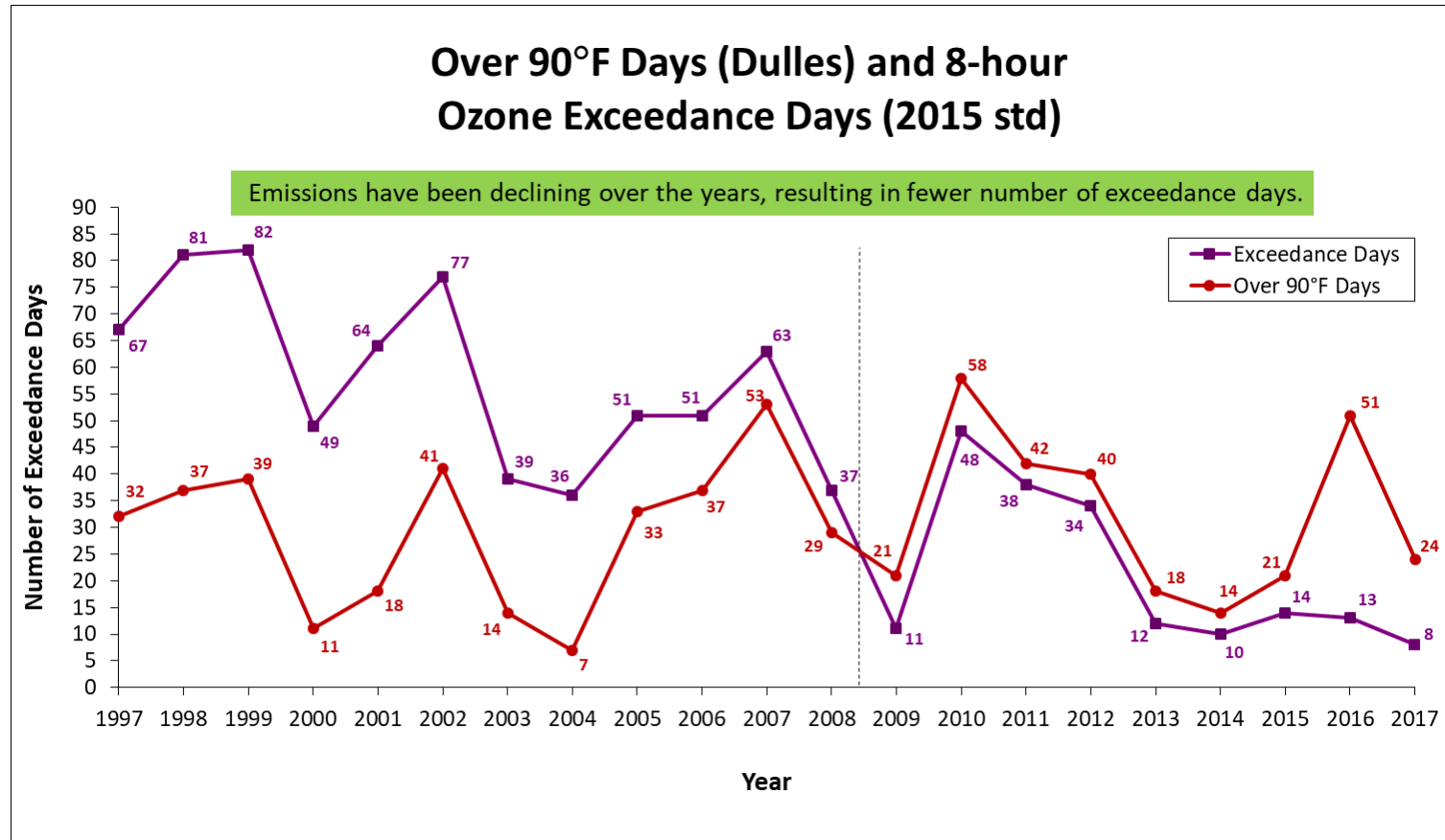
Ozone Exceedance Trend



* 2017 data is incomplete and preliminary as of September 22nd, 2017.

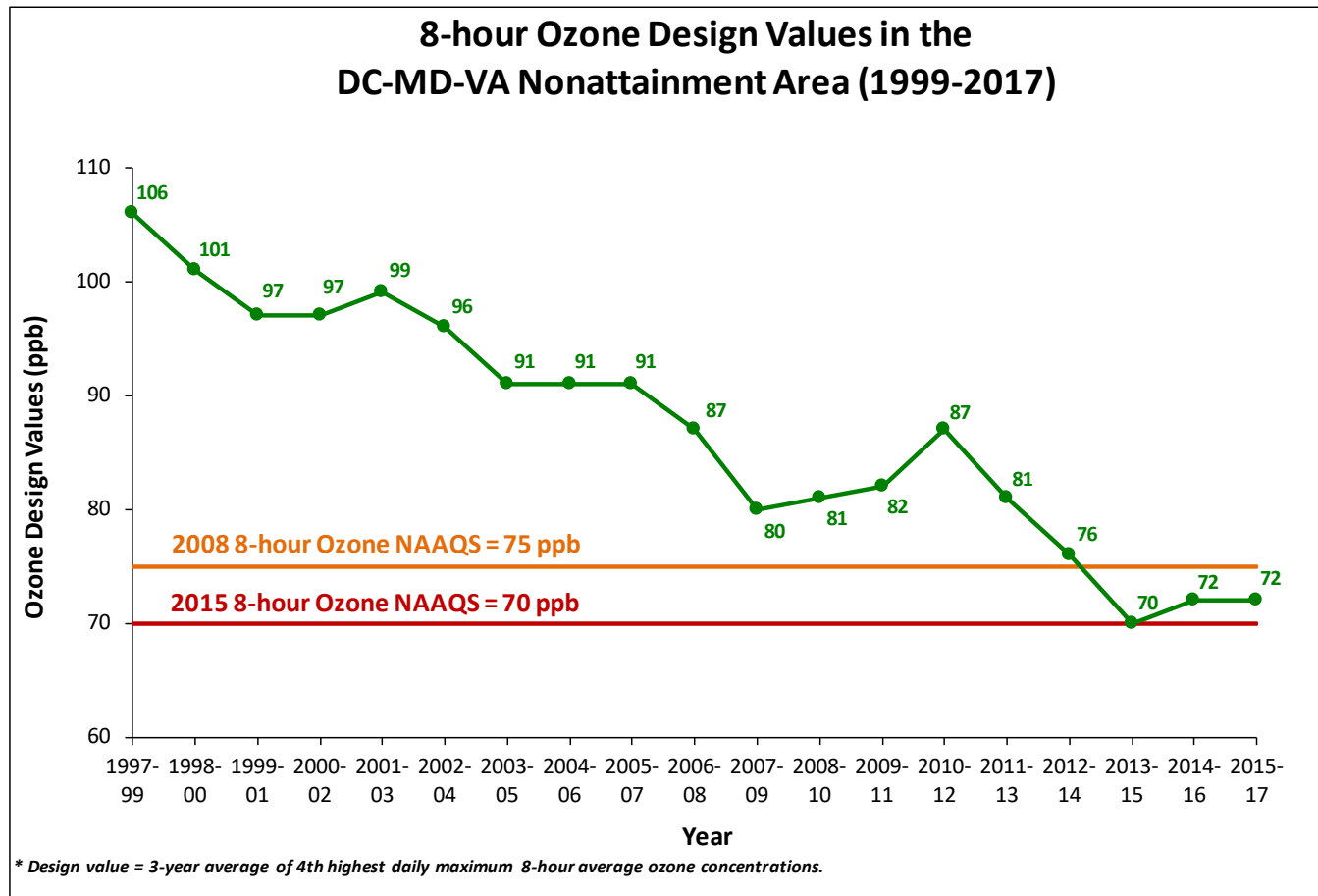


Ozone & Temperature Trend



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Ozone Design Value Trend



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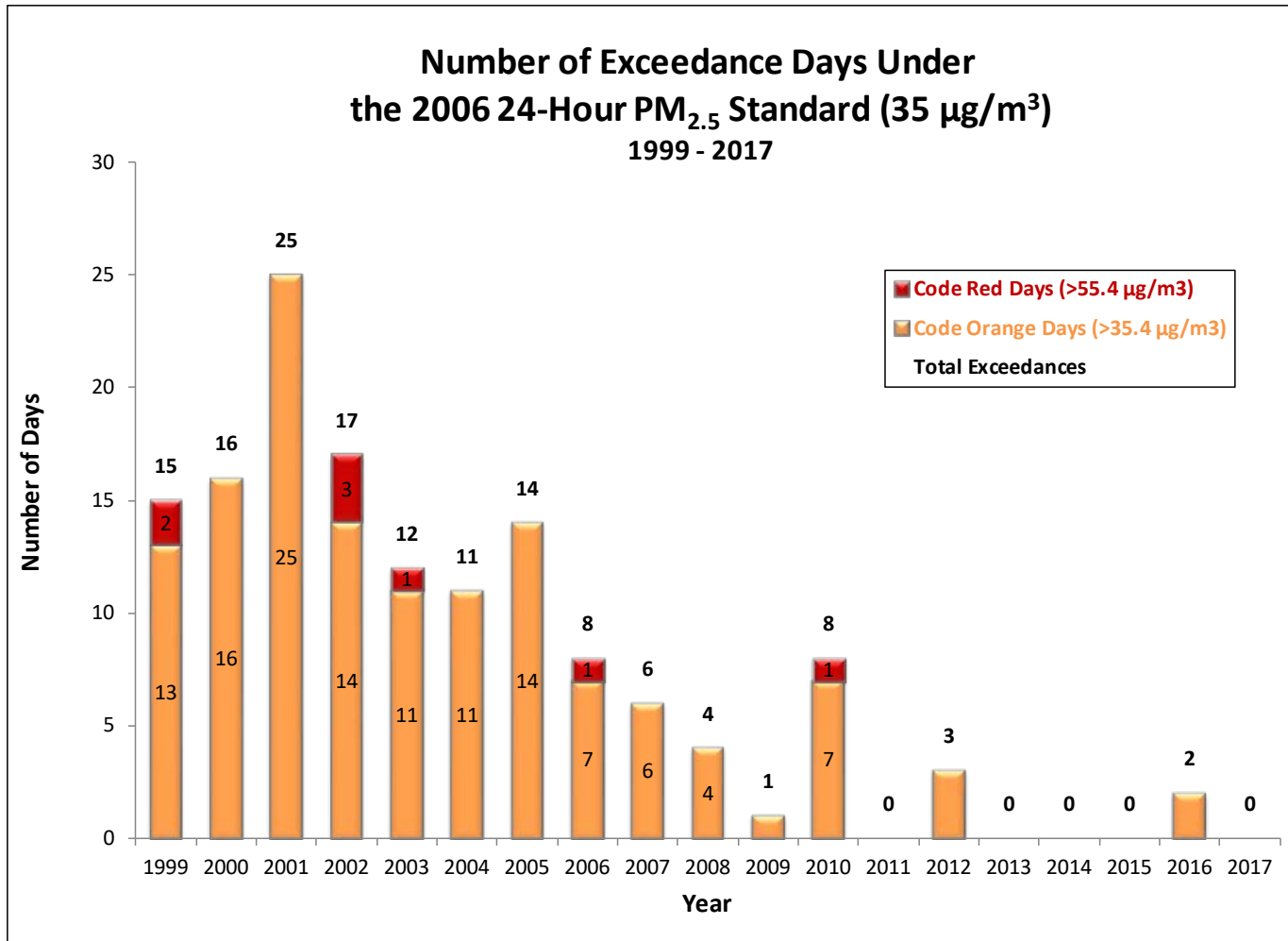


Why Fewer Exceedance Days Now ?

Emission Control Programs		
Federal	State	Local
Acid Rain Program Phase 1/2 (1996/2000)	Vehicle Inspection and Maintenance Programs	Renewable Energy Programs: <i>Regional Wind Power Purchase Program</i> <i>Clean Energy Rewards Program</i> <i>Renewable Portfolio Standards</i>
Tier 2 (LD Vehicle) Rule (2004)	MD Healthy Air Act (2009/2012)	Energy Efficiency Programs: <i>LED Traffic Signal Retrofit Program</i> <i>Building Energy Efficiency Programs</i>
HD Diesel Vehicle Rule (2004/2007)	VA CSAPR Rule	VRE Idling Reduction
Nox SIP Call (2004)	Ozone Transport Commission Rules	Low VOC Paint
Clean Air Interstate Rule/CSAPR/CSAPR Update (2009/2015/2017)		Gas Can Replacement



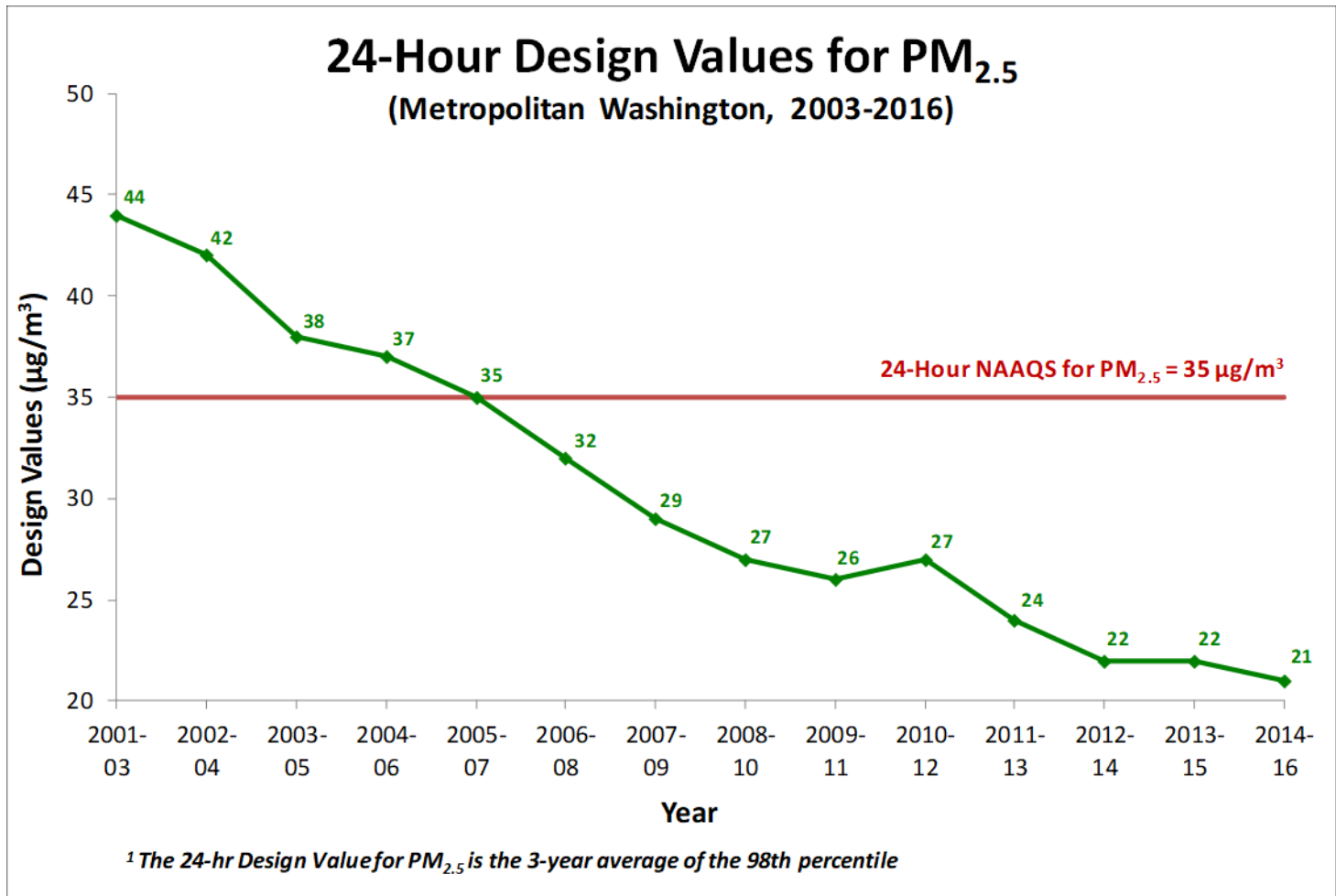
PM_{2.5} Exceedance Trend



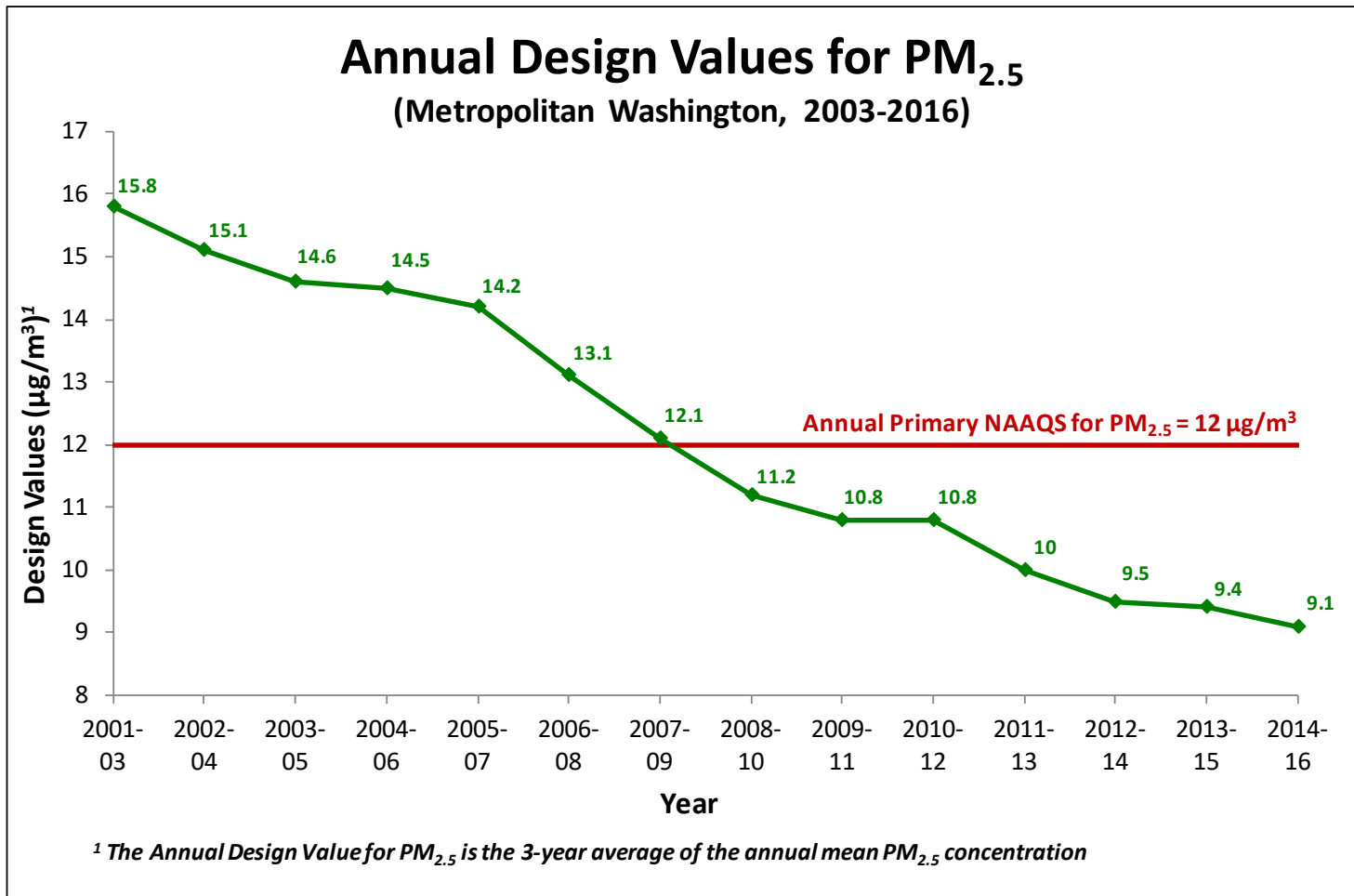
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24-Hour PM_{2.5} Design Value Trend



Annual PM_{2.5} Design Value Trend



Implementation Schedule - New Ozone NAAQS

Milestone	Dates
Final Rule Announced	October 1, 2015
State Designation Recommendations to EPA	October 1, 2016
EPA Response to State Designation Recommendations	June 1, 2017 (Still awaited)
Final Designations	October 1, 2017 (Likely delayed, due date 2 years from date of promulgation of standard)
Emissions Inventory (Base Year)	October 1, 2019 (likely delayed, due date 2 years from effective date of designation)
Attainment Demonstration SIPs Due	2020/2021 (for Moderate and above NAA only, not required for Marginal nonattainment area)
Attainment Dates	2020-2037 (depends on level of nonattainment designation) Marginal NAA – October 1, 2020 (likely delayed, due date 3 years from effective date of designation)

