

OZONE SEASON SUMMARY 2018

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Adapted from Sunil Kumar, Environmental Engineer's presentation to the MWAQC Technical Advisory Committee

June 18, 2018



Metropolitan Washington
Council of Governments

Air Quality Index (AQI) Category	Meaning
Good	No health impacts; enjoy the great outdoors
Moderate	May pose a moderate health risk to unusually sensitive people
Unhealthy for Sensitive Groups	Children, older adults, persons with respiratory or heart conditions may experience health effects; limit prolonged outdoor exertion
Unhealthy	Everyone may experience health effects and should limit prolonged outdoor exertion
Very Unhealthy	Everyone may experience more serious health effects and should avoid or limit outdoor exertion
Hazardous	Hazardous



Peak 8-Hour Average Ozone Levels (ppb)

April 2018						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
25	26	27	28	29	30	31
01	02	03	04	05	06	07
48	45	40	48	51	61	51
08	09	10	11	12	13	14
52	50	54	56	59	70	57
15	16	17	18	19	20	21
44	36	44	52	50	56	56
22	23	24	25	26	27	28
61	59	53	48	57	53	61
29	30	01	02	03	04	05
46	60					

May 2018						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
29	30	01	02	03	04	05
		70	73	64	68	53
06	07	08	09	10	11	12
46	63	62	70	56	65	63
13	14	15	16	17	18	19
35	46	56	34	25	37	23
20	21	22	23	24	25	26
50	58	41	52	71	61	52
27	28	29	30	31	01	02
51	28	46	27	34		
03	04	05	06	07	08	09

June 2018						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
01	02	03	04	05	06	07
65	50	26	43	56	44	55
08	09	10	11	12	13	14
65	64	46	35	52	44	55
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	01	02	03	04	05
06	07	08	09	10	11	12

2 Code Orange Days
 30 Code Yellow Days
 43 Code Green Days

Analysis is based on draft data as of June 15, 2018. Data is subject to change

2018 Ozone Exceedances

Date	Monitors Exceeding	Highest Monitor	8-Hr Max (ppb)
5/2	1	Beltsville	73
5/24	1	Franconia	71

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Meteorology on Exceedance Days

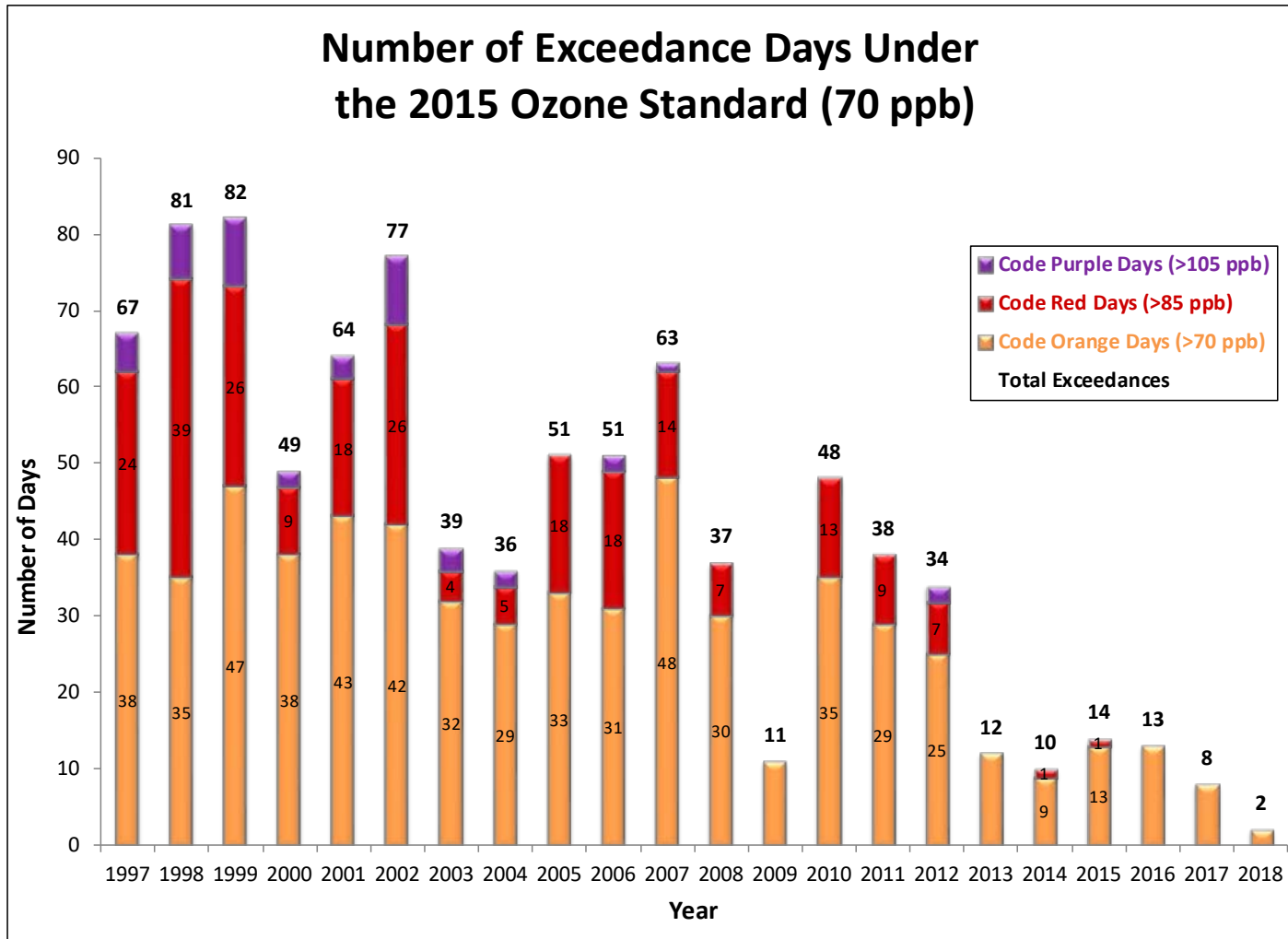
- May 2/24

Exceedances seem influenced by both transported & local emissions

- High Temperature: 83°F - 88°F, Clear sky
- Light winds brought some ozone from upstream areas
- Ozone build up on previous days



Ozone Exceedance Trend



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Ozone Design Value Trend

