

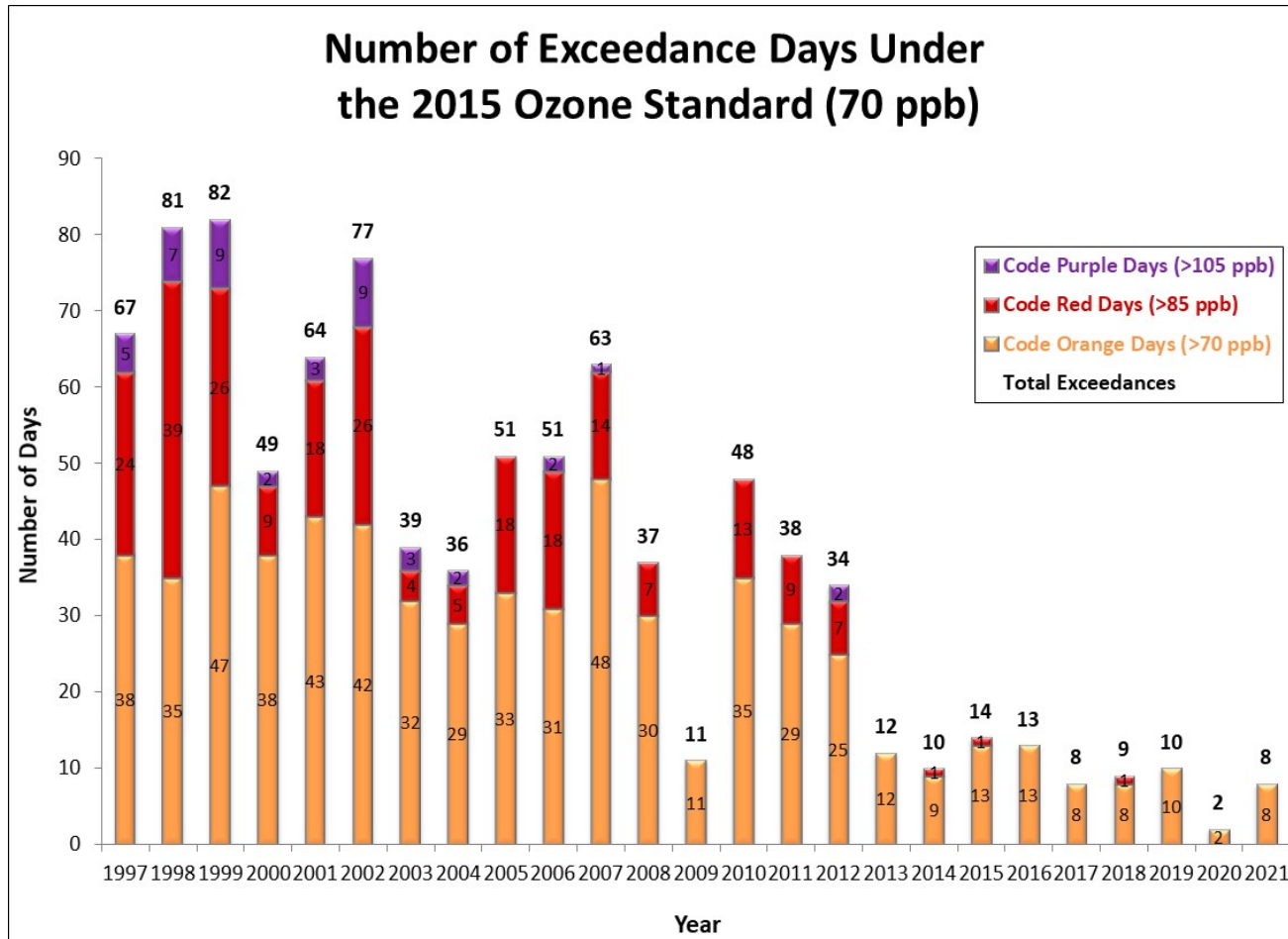
# OZONE SEASON SUMMARY 2021

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Sunil Kumar  
Principal Environmental Engineer

MWAQC-Technical Advisory Committee  
October 12, 2021

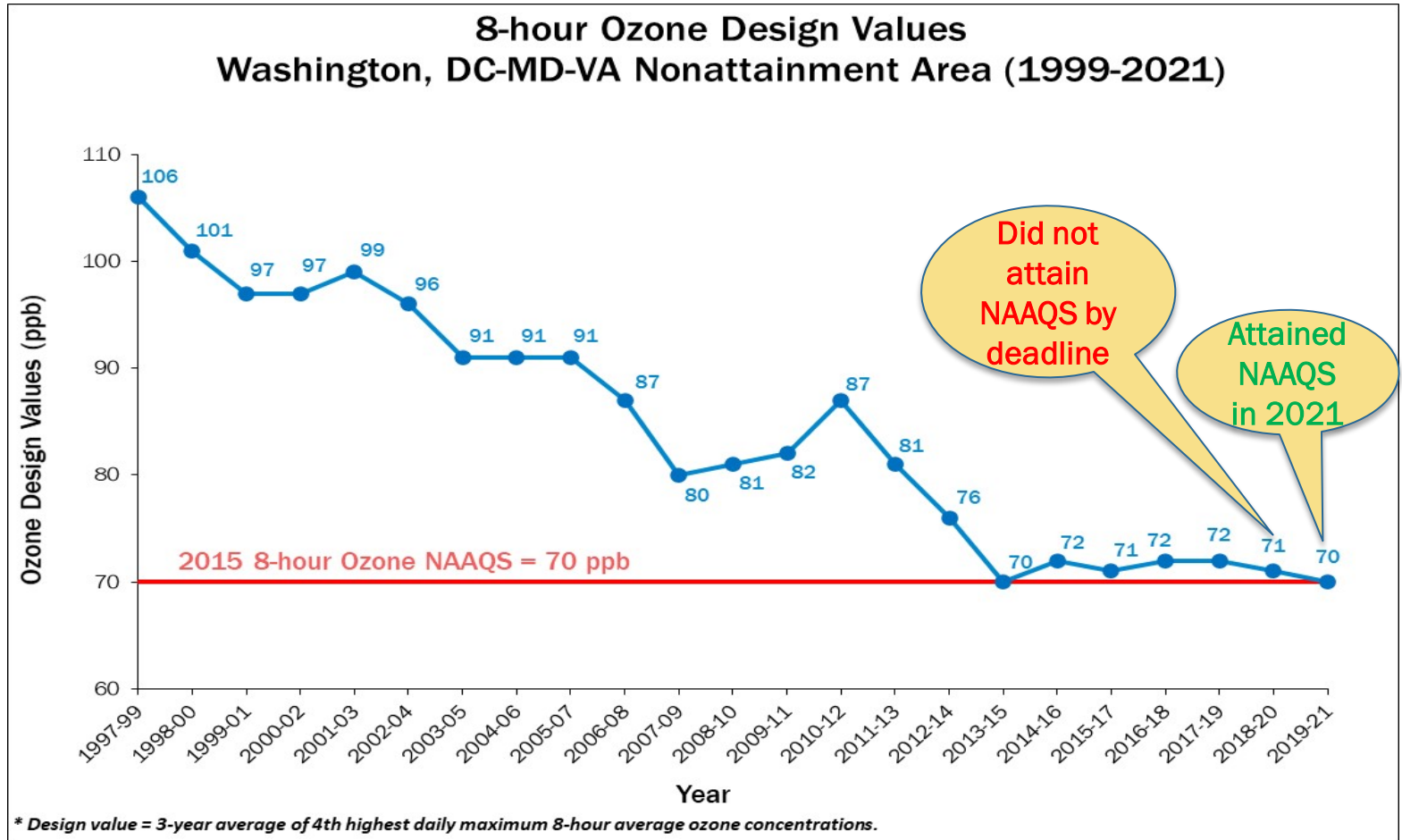
# Ozone Exceedance Trend



2021 data is draft and incomplete as of September 30, 2021.



# Ozone Design Value Trend



2019-21 data is draft as of September 30, 2021.

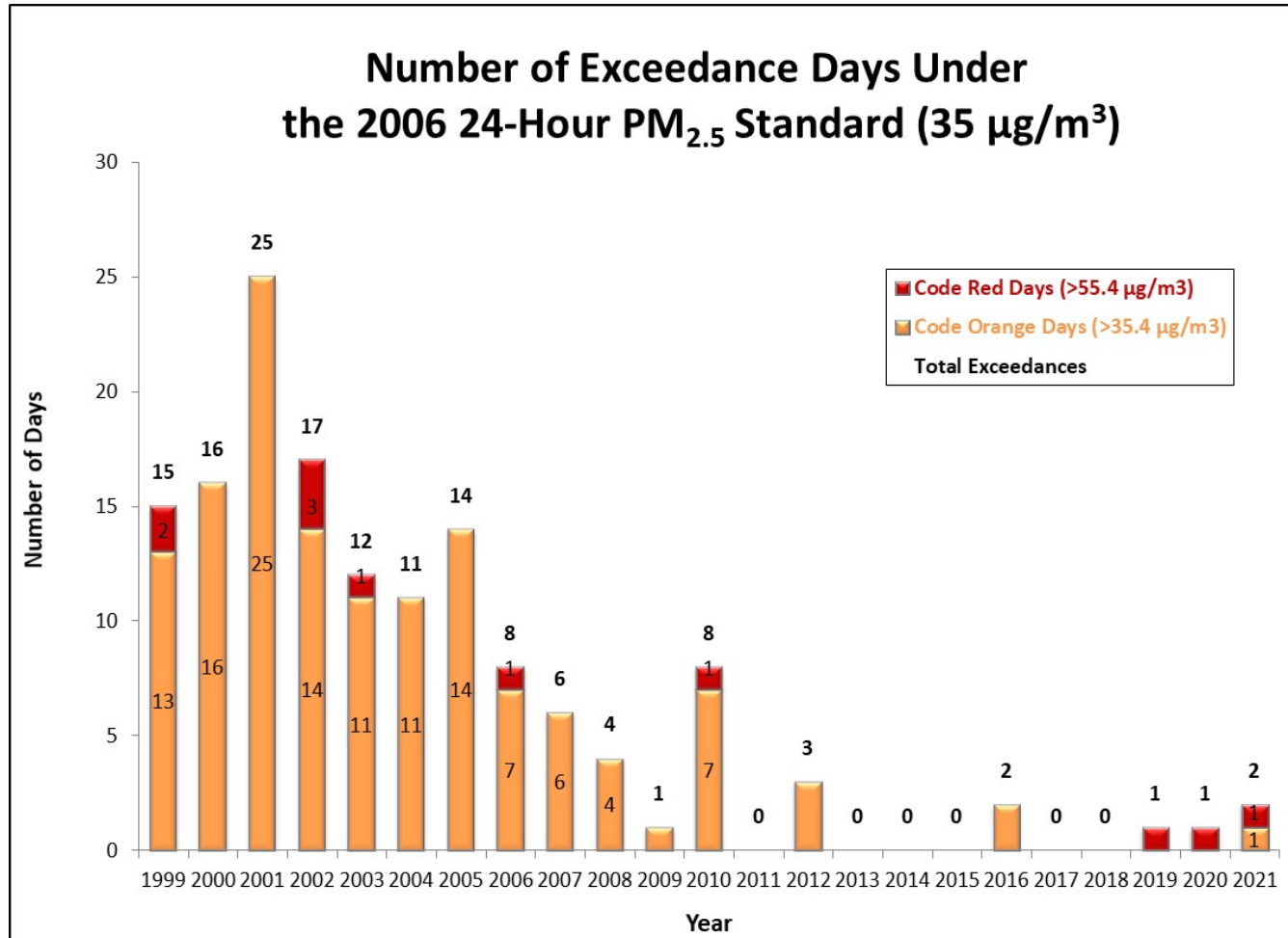


# Ozone Design Values (Individual Monitors)

Monitor	County, State	Draft 2019-2021 Design Value (ppb)
Beltsville	Prince George's, MD	70
McMillian	District of Columbia	69
HU- Beltsville	Prince George's, MD	67
Takoma	District of Columbia	66
Arlington	Arlington, VA	66
PG Equestrian	Prince George's, MD	65
Franconia	Fairfax, VA	65
Frederick	Fredrick, MD	65
Rockville	Montgomery, MD	63
Ashburn	Loudoun, VA	62
River Terrace	District of Columbia	60
S. Maryland	Charles, MD	59
Long Park	Prince William, VA	59
Calvert	Calvert, MD	58

2021 data is draft and incomplete as of September 30, 2021.

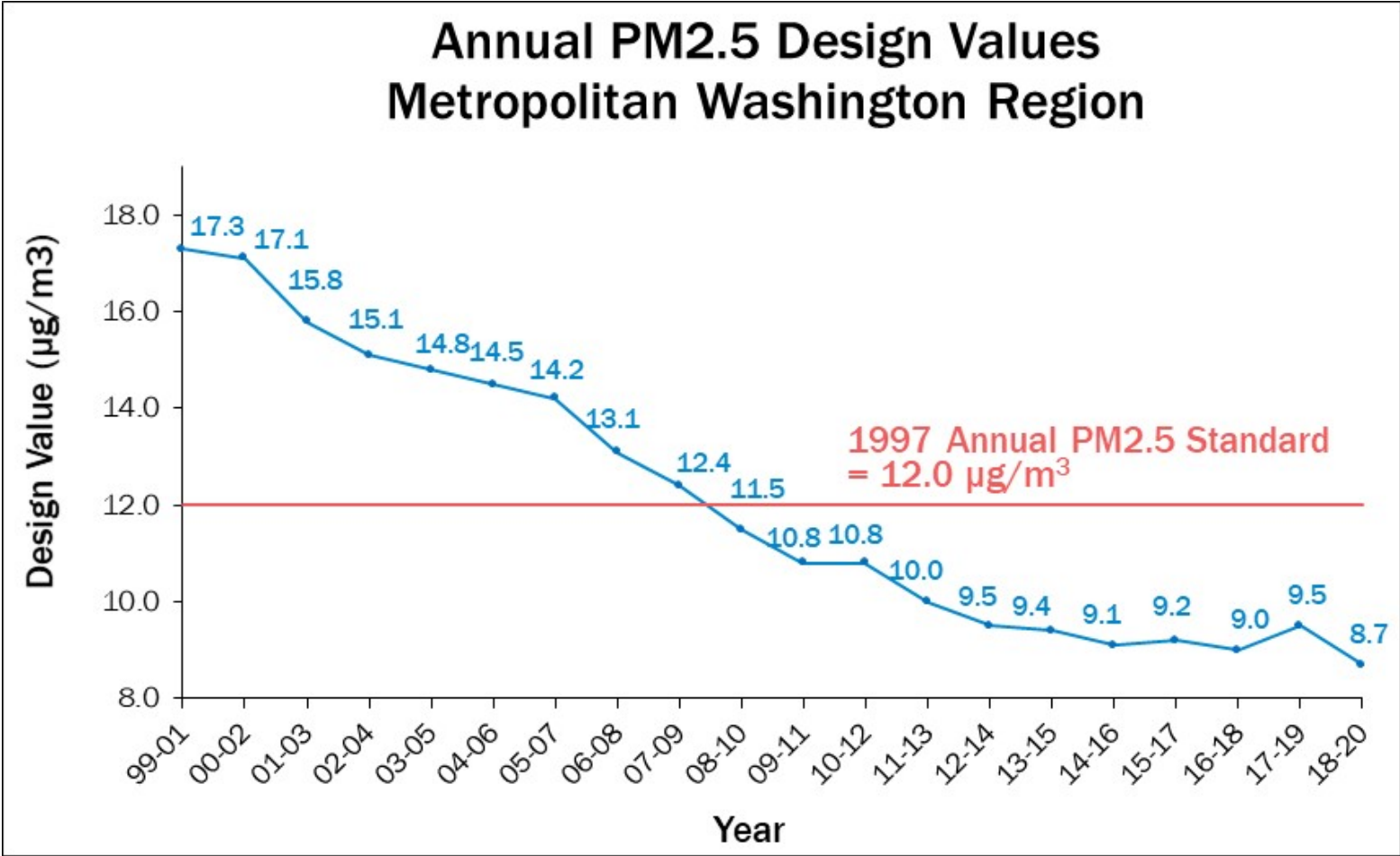
# PM2.5 Exceedance Trend



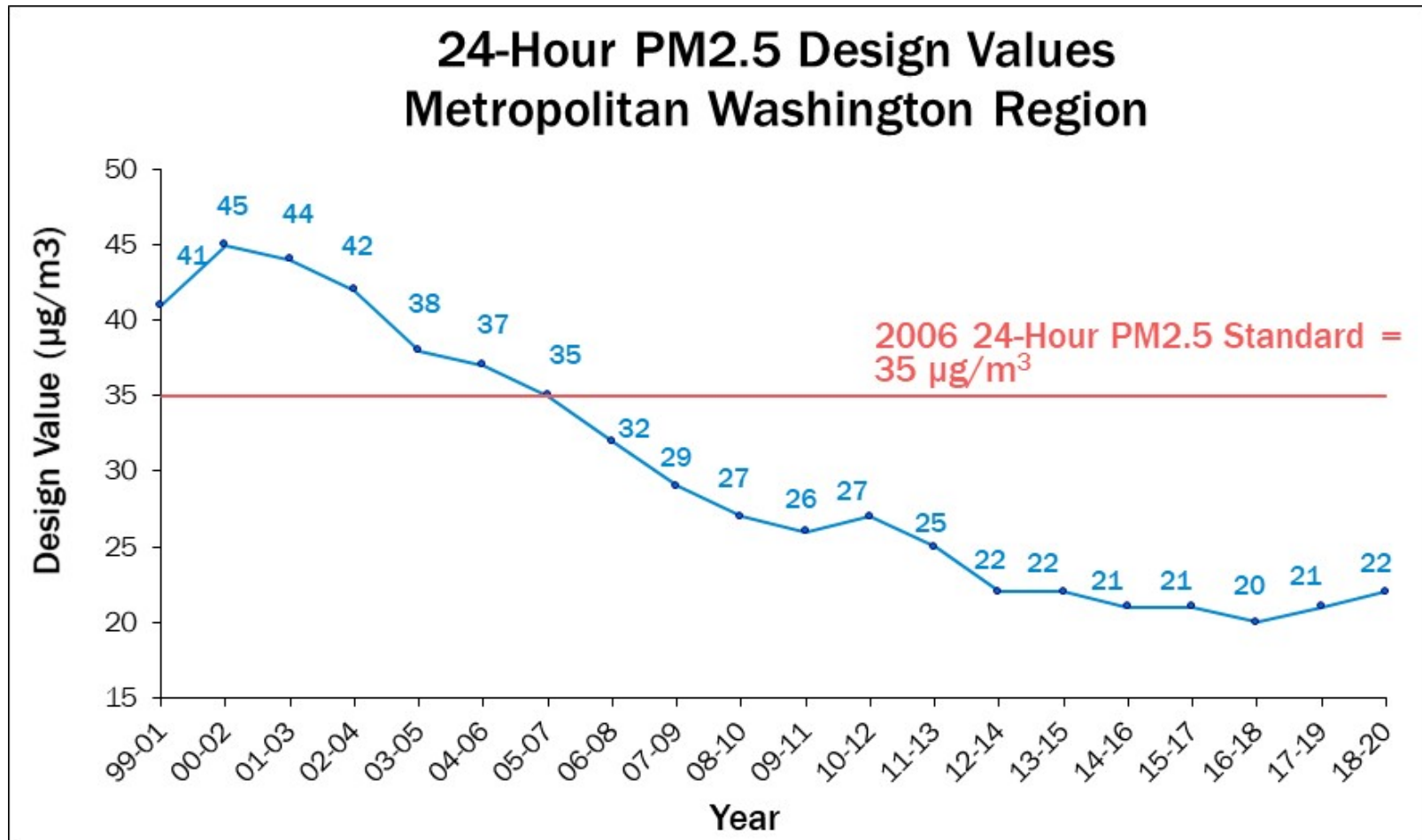
2021 data is draft and incomplete as of September 30, 2021.



# Annual PM2.5 Design Value Trend



# 24-Hour PM2.5 Design Value Trend



# CONCLUSIONS

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- Ozone and PM2.5 levels are overall higher in 2021 compared to 2020, but still a bit lower compared to 2019 suggesting air quality is getting back closer to "normal" levels.
- Relatively warmer Weather and higher emissions this year contributed towards higher pollutant levels this year compared to 2020.
- Though the Washington region attained the 2015 ozone standard this year, a lot can be attributed to the 2020 data.
- There is a chance the region can go back to nonattainment in future as post-pandemic recovery continues next year and beyond leading to increased emissions.
- Therefore, there is a need to continue efforts to lower ozone levels.