

# BASE YEAR 2017 EMISSIONS INVENTORY - 2015 OZONE STANDARD (70 PPB)

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# Base Year 2017 Emissions Inventory - 2015 Ozone Standard

- Current ozone standard was published in 2015 – 70 parts per billion (ppb)
- Washington region - Nonattainment Area for 2015 ozone standard (70 ppb)
- Levels of nonattainment depend on ozone levels
  - Marginal, Moderate, Serious, Extreme
- Washington region - **Marginal** Ozone Nonattainment Area
- **Attainment deadline – August 3, 2021** (Attainment to be based on 2018-2020 data)
- Requirements for Marginal Ozone NAA - Submission of a comprehensive Base Year emissions inventory to EPA by August 3, 2020
- Base Year selected in coordination with EPA – 2017

# Ground-level Ozone Health & Environmental Effects

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- Difficulty breathing, shortness of breath
- Aggravates coughing and/or chest pain
- Can trigger asthma attacks
- Respiratory infection
- Repeated exposure can result in chronic damage to the lungs
- Sensitive populations: children, older adults, people with asthma, and people who are active outdoors, especially outdoor workers
- Environmental Effects
  - Damage to crops, forests, and vegetation
  - Damage to building materials, rubber, and paint

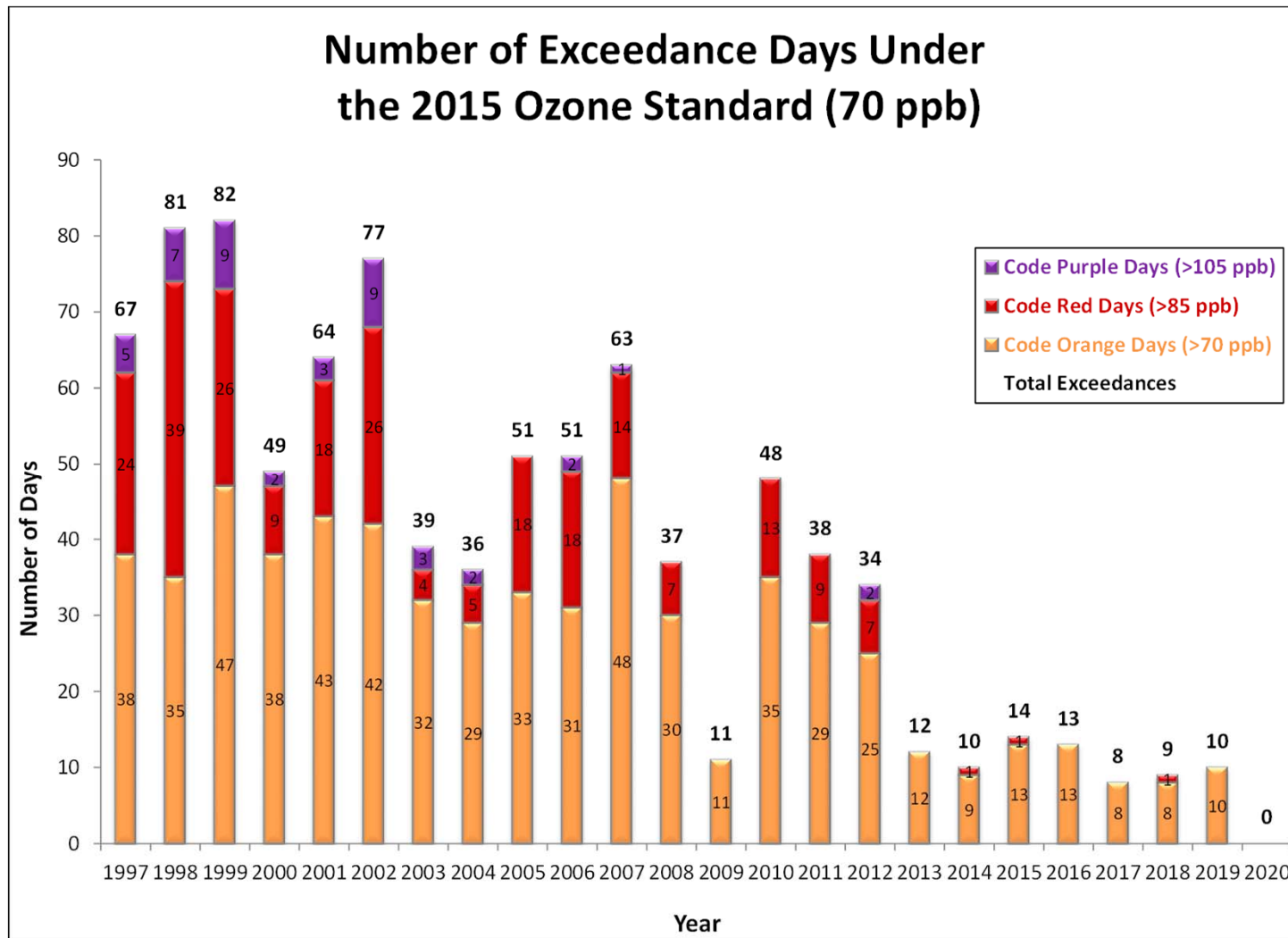
# Ozone Monitor Map

Metropolitan Washington Ozone Monitors  
Washington, DC, MD, VA



Note: State air agencies in the District of Columbia, Maryland, and Virginia monitor and provide air pollutant data for the Washington region. EPA also operates a monitor in Beltsville, MD.

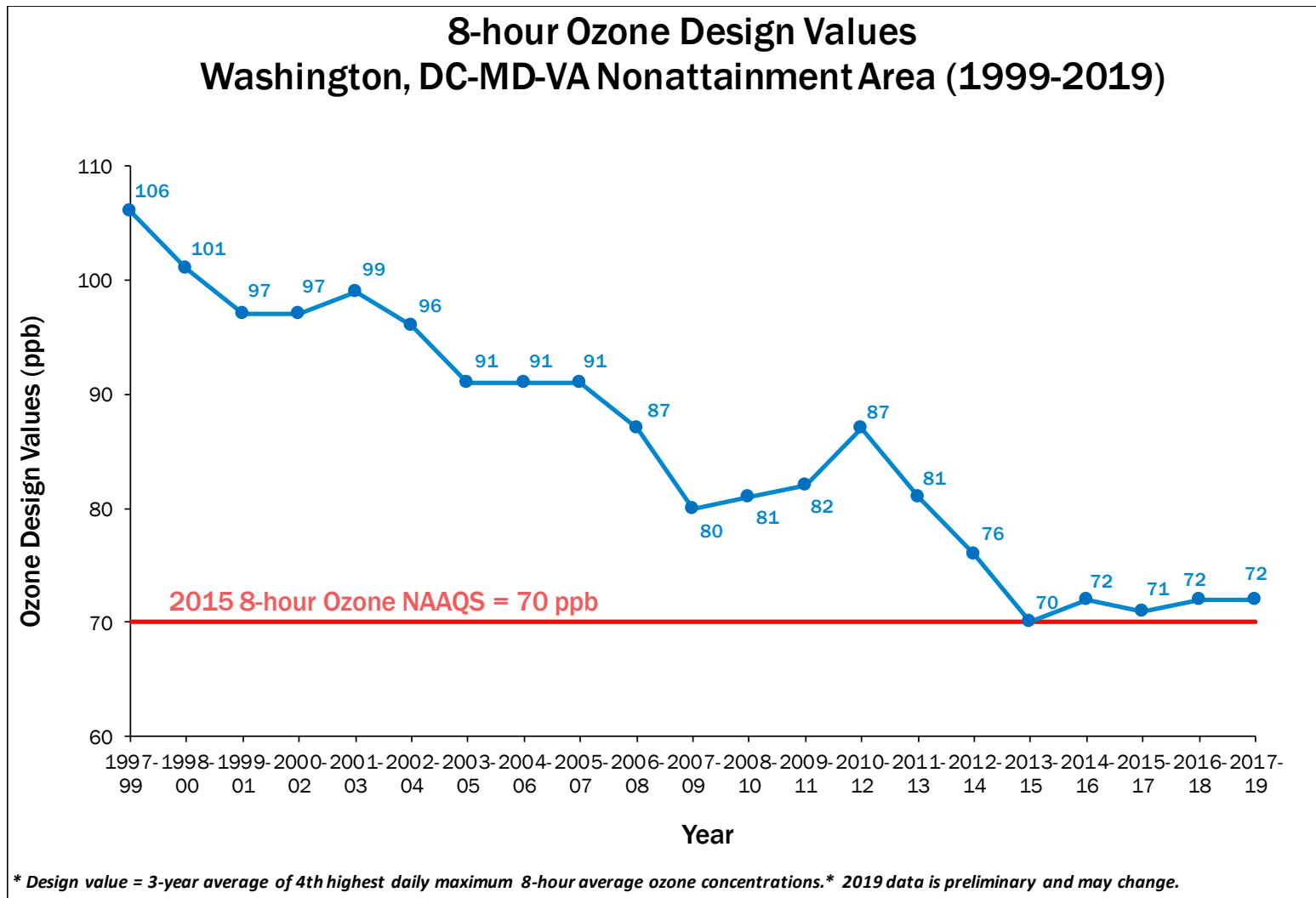
# Ozone Exceedance Trend



\* 2019 and 2020 data are draft.



# Ozone Design Value Trend



\* 2019 data is draft.



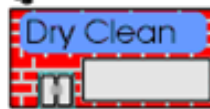
# Overview - BY 2017 Emissions Inventory

- Emission Sources

- Point



- Area



- Nonroad



- On-Road



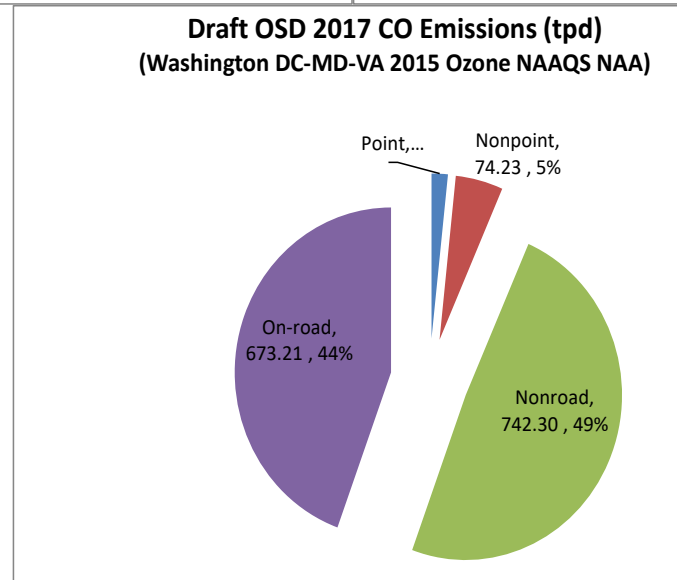
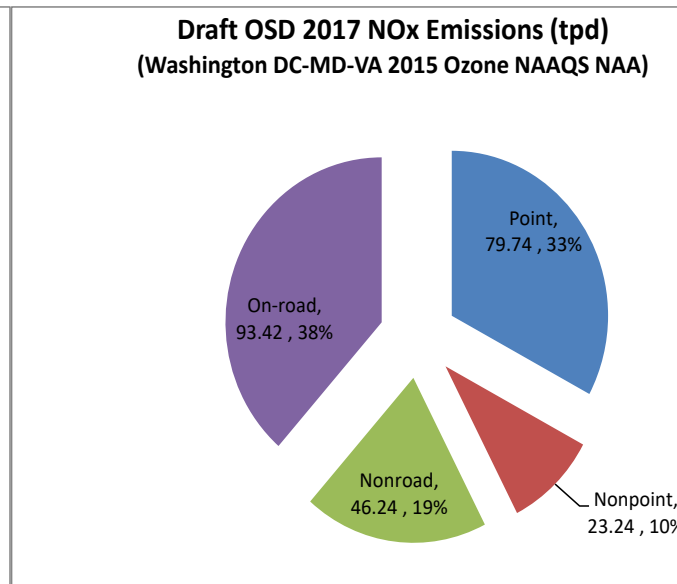
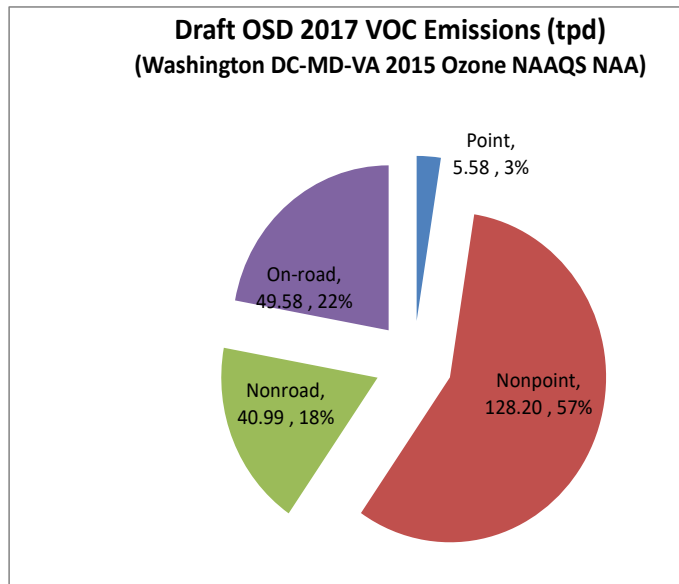
# Emission Period & Pollutants

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- **Emission Period: Average ozone season day emission in 2017**
- **Pollutants**
  - **VOC and NO<sub>x</sub> (Required) – These are precursors for ozone**
  - **Carbon Monoxide (CO) – Not required, but added to the inventory document keeping in mind uses in future air quality plans (e.g. ozone redesignation request/maintenance plan)**



# Emission by Source



# Timeline – BY2017 Emissions Inventory

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- MWAQC-TAC recommended MWAQC to approve inventory for public comment and hearing (PH&C) process: February 11
- EPA provided comments on inventory before PH&C process started: February 21
- MWAQC approved for PH&C process: February 26
- Public comment period: March 3 – July
  - Virginia’s current comment period ends on May 27th but will hold a new 30-day comment period for the revised BY2017 inventory document that includes technical corrections to the inventory. This will end likely on July 22<sup>nd</sup>. The District is in the process of deciding whether to update their inventory and start a new comment period for that.
- No public comment received as of May 21, but Virginia provided technical corrections to inventory: May 13
- MWAQC authorizes MWAQC-Executive Committee to approve response to any comment received and the final inventory document: May 27
- MWAQC-Executive Committee approves the document in July