Item #3



BY2011 Emissions Inventory (Draft)

Sunil Kumar MWAQC February 26, 2014

1



Introduction

Washington region

- Nonattainment Area for current ozone standard (75 ppb)
- Levels of nonattainment (Marginal, Moderate, Serious, Extreme) depend on ozone levels
- Washington region Marginal Ozone NAA
- Attainment deadline December 31, 2015
- Requirements for Washington Marginal Ozone NAA
 - Submission of a comprehensive Base Year emissions inventory to EPA
 - Base Year 2011
 - Submission deadline July 20, 2014

2



Overview

Base Year 2011 Emissions Inventory

Emission Sources

Point



Area





Nonroad



Onroad



3



Emissions Inventory Emission Period & Pollutants

Emissions Period

- Annual: January December (2011)
- Avg Ozone Season Day: Avg day (May-September)

Pollutants

- Annual VOC, NOx, CO, PM2.5-Pri, SO2, NH3
- Avg Ozone Season Day VOC, NOx, CO

4



Development - Emissions Inventory

- Point Sources States
 - National Emissions Inventory (NEI 2011) was starting point
 - Developed annual and OSD (derived from annual) emissions inventories
- Area & MAR Sources States
 - NEI 2011 was starting point
 - Developed annual and OSD (derived from annual) emissions inventories

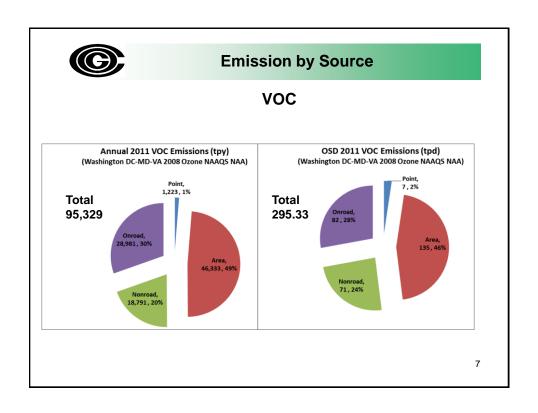
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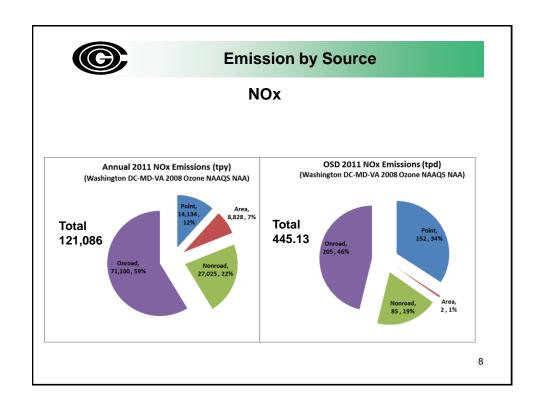


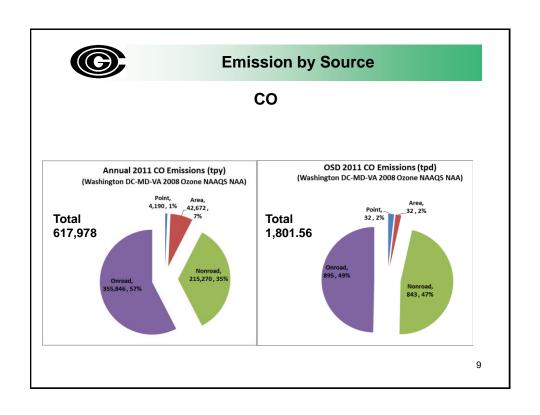
Development - Emissions Inventory

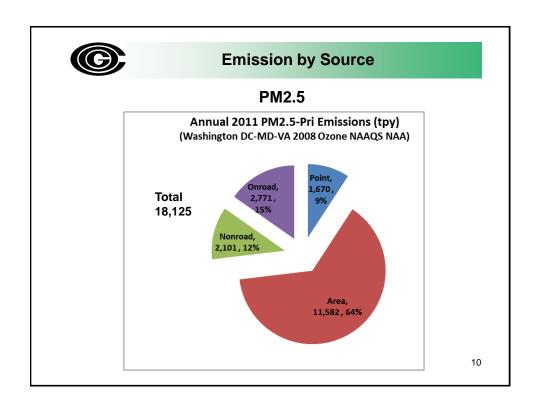
- Nonroad Sources (NMIM model) MWAQC Staff
 - NEI 2011 inputs used
 - NMIM2008 software (NONROAD2008a model embedded)
- Onroad Sources MWAQC/TPB Staff
 - MOVES2010a model used
 - Fuel & I/M Program inputs States
 - Meteorology MWAQC Staff
 - Dulles & National airports data averaged for 2011
 - Transportation inputs TPB Staff
 - Inventory Development Periods
 - Annual run Model run for Jan-Dec 2011
 - OSD run Model run for July (Weekday)

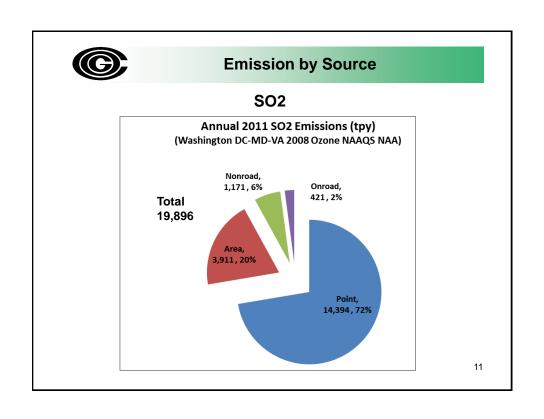
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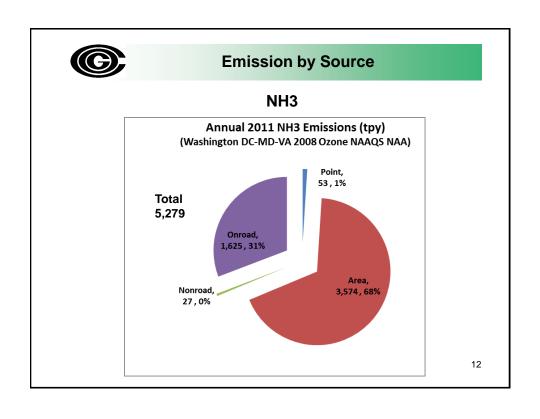














Largest Emission sources

- o VOC, PM2.5-Pri, NH3 Area
- o NOx, CO Onroad
- o SO2 Point

13



Next Steps

- Today MWAQC approves Base Year 2011 Emissions Inventory for public comment *
- March State air agencies issue notices for public hearing and comment
- April Public comment period ends
- May MWAQC staff in association with state air agencies address comments received
- May 13 MWAQC-TAC approves BY2011 inventory
- May 28 MWAQC approves BY2011 inventory
- June/July State air agencies submit BY2011 inventory to EPA

14

* MWCOG SIP Web-Site: https://www.mwcog.org/environment/air/sip/default.asp