



January 12, 2022

Air Quality Committee Meeting

*Department of Environmental Quality*



# *Attainment Planning / Allied Programs Update*

- Regional Haze Round 2 SIP Status
- National Ambient Air Quality Standards – Attainment Status
- North Carolina Greenhouse Gas Inventory (1990-2030)
- Update on SIPs submitted to EPA
- Medium Heavy-Duty Zero Emission Vehicles (MHD ZEV)

# North Carolina and the National Ambient Air Quality Standards

Attaining all federal public health air quality standards for:



days...

**and counting!**

as of January 12, 2022

Ozone

Particulate  
Matter

Lead

Nitrogen  
Dioxide

Sulfur  
Dioxide

Carbon  
Monoxide



# 2021 Ozone Season

- 2015 Ozone National Ambient Air Quality Standard (NAAQS)
  - 70 parts per billion (ppb) (8-hour average of 4<sup>th</sup> highest daily value)
- Monitoring data show statewide attainment through 2021
- Statewide, ozone monitor design values <65 ppb except in Mecklenburg County
  - Garinger and University Meadows monitors at 66 ppb (down from 67 ppb last year)
- Ozone Design Value Predictor Tool provides the latest data through 2021 - <https://airquality.climate.ncsu.edu/dv/>

# Ozone Design Value Predictor

**Map Boundaries:**

State  Counties

**Daily Max. 8 hr. Ozone:**

Select a Date

**Design Value Data:**

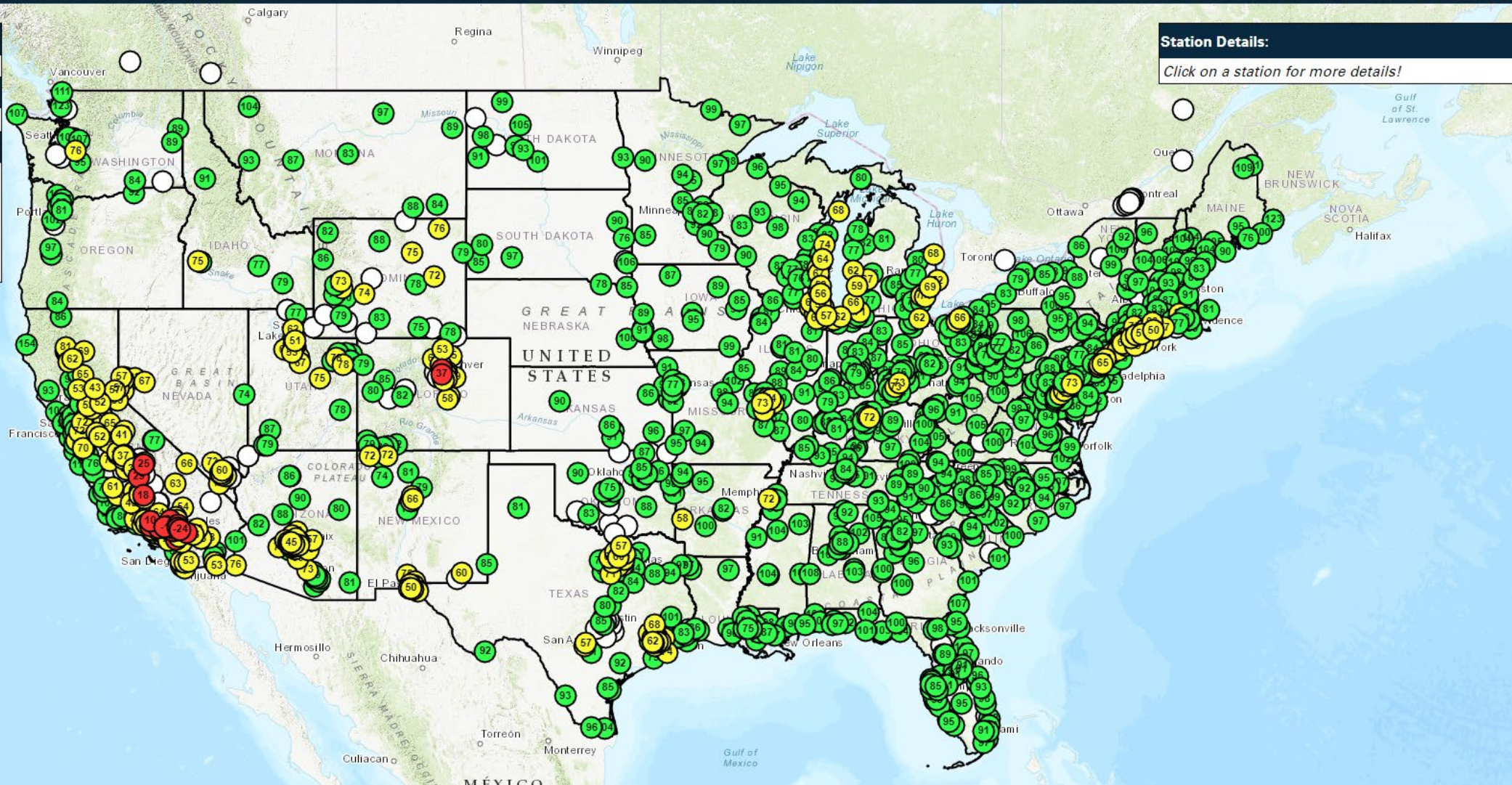
'22 4th highest for violation

Updated through: 1/5/22

**Disclaimer:** 2021 and 2022 ozone data is unofficial and is provided courtesy of [AirNow-Tech](#).

**Station Details:**

Click on a station for more details!



**Legend**

Current 3 yr. DV attainment projection

- Missing Data
- Unlikely to Violate
- Possible to Violate
- Already Violating

# ***North Carolina Greenhouse Gas Inventory (1990-2030)*** ***(Revisions to January 2019 Report)***

- Updating historical and projected emissions for the three major sectors (81% of statewide emissions in 2017)
  - Electricity Generation
  - Transportation
  - Residential, Commercial, and Industrial Fuel Combustion
- Updating Carbon Sinks (Land Use/Land Use Change, and Forestry) sector to incorporate updated methodologies
- Historical emissions being updated through 2018
- On-road mobile emissions based on EPA's MOVES model used for criteria air pollutants (rather than EPA's State Inventory Tool)

# *Regional Haze - Round 2 SIP Status*

<b>Date</b>	<b>Milestone</b>
Aug. 30 - Oct. 14, 2021	Public Comment Period
Oct. 8, 2021	Public Hearing (digital)
Feb. 2022	Submit final SIP to EPA

- Public Hearing – 7 speakers
- Written Comments Received
  - 19 organizations (federal and state, non-governmental, industry (213 pages)
  - Form letters, post cards, individual comments (481 pages)

# *Update on SIP Activity*

- 1997 8-Hour Ozone NAAQS
  - Limited Maintenance Plan for the Charlotte-Gastonia-Rock Hill Maintenance Area for the 1997 8-Hour Ozone NAAQS
    - Final submitted to EPA Dec. 9, 2021
    - EPA final action due by June 9, 2023 (18 months from submittal)
  - Limited Maintenance Plan for the Great Smoky Mountains National Park, Rocky Mount, & Triangle Maintenance Areas for the 1997 8-hour Ozone NAAQS
    - Final submitted to EPA Sept. 22, 2020
    - EPA final action due by March 22, 2022 (18 months from submittal)



# *Update on SIP Activity*

- 2008 8-Hour Ozone NAAQS
  - [Charlotte Maintenance Area – Revisions to Motor Vehicle Emissions Budgets](#)
    - EPA final approval published on August 25, 2021 (86 FR 47387)
    - Effective Sept. 24, 2021
- 2015 8-Hour Ozone NAAQS
  - [Clean Air Act Section 110\(a\) “Good Neighbor” SIP](#)
    - EPA final approval published on Dec. 2, 2021 (86 FR 68413)
    - Effective Jan. 3, 2022



# *Update on SIP Activity*

- Brunswick County Redesignation for 2010 1-Hour SO<sub>2</sub> NAAQS
  - Reclassify 6 townships from “unclassifiable” to “attainment/unclassifiable”
    - Townships: Lockwood Folly, Northwest, Shallotte, Smithville, Town Creek, and Waccamaw
  - EPA final approval published on Sept. 28, 2021 (86 FR 53555)
  - Effective Oct. 28, 2021
- Transportation Conformity Memorandum of Agreements (MOAs)
  - Final SIP revision submitted to EPA on Sept. 24, 2021
  - EPA final action due by March 24, 2023 (18 months from submittal)
- Session Law 2020-5, HB 85
  - Remove Lee, Onslow, and Rockingham Counties from the Motor Vehicle Emissions Inspection Program
  - Final SIP revision submitted to EPA Dec. 14, 2020
  - EPA final action due by June 14, 2022 (18 months from submittal)

# *MHD ZEV – Clean Transportation*

- July 2020
  - Governor initiated by signing MOU with 14 states and DC
- Focused on NC sales of Medium / Heavy-Duty Zero Emission Vehicles
  - By 2030 – 30% sales of MHD ZEVS
  - By 2050 – 100% sales of MHD ZEVs
- NorthEast States for Coordinated Air Use Management (NESCAUM)
  - Developing Action Plan
  - Coordinating meetings
  - Providing experts for input into Action Plan
- Draft Action Plan to be released end of February 2022
  - Focused on Environmental Justice
    - DEQ EJ Board assistance
  - Provides states a suite of options
- Interagency Coordination
  - Governor’s Office, NC DOT, Commerce, NC DOL, NC DEQ (specifically DAQ)



# *Rule Development Update*

- NOx State Implementation Plan (SIP) Call
- Title V Rule Revisions
- Potential Future Concepts

# ***NOx SIP Call Hearing Process***

- Comment Period – October 15, 2021 – December 14, 2021
- Public Hearing – Was held December 1, 2021, at 6:00pm via Webex
- Hearing Officer – Robin Barrows, Supervisor of Allied Programs Branch, DAQ Planning Section
- Hearing information - <https://deq.nc.gov/about/divisions/air-quality/air-quality-planning/air-quality-rules-regulations/rules-hearing-process>
- Comments received from Duke Energy and U.S. EPA
- Potential final action by EMC at its March 2022 meeting

# *Title V Rule Revisions*

- Proposed rules presented at the November 18, 2021 EMC meeting
- Comment Period – January 18, 2022 – March 21, 2022
- Public Hearing – February 23, 2022, at 6:00pm via Webex
- Hearing Officer – EMC Commissioner Chris Duggan
- Hearing information - <https://deq.nc.gov/about/divisions/air-quality/air-quality-planning/air-quality-rules-regulations/rules-hearing-process>
- Potential final action by EMC at its May 2022 meeting

# Potential Future Concepts

- Electronic Submittal of Documents
  - Review current rules to determine when paper documents are required to be submitted
  - Revise rules to permit submittal of electronic documents as allowed by federal and state regulations
  - Possibly consolidate all electronic document submittal requirements into new rule
- Rule Readoption Cleanup
  - Review all rules for errors introduced during H74 rule readoption process.
  - Errors could include cross-reference errors and words inadvertently removed or not added
  - Example: 02D .0532(c) – TSP removed without inserting PM2.5 and PM10

# *Potential Future Concepts*

- 02D .0516 (Sulfur Dioxide Emissions from Combustion Sources)
  - Working to prepare concept
  - Exploring options to support concept



*Any Questions? ...*

**Randy Strait**  
**Planning Section Chief**  
**NC DEQ, Division of Air Quality**  
**919-707-8721**

**[Randy.Strait@ncdenr.gov](mailto:Randy.Strait@ncdenr.gov)**

*Department of Environmental Quality*

