





NCTCOG PRESENTATION

# Start of the 2025 Ozone Season



DANIELA TOWER | MARCH PUBLIC MEETING | 3.10.2025

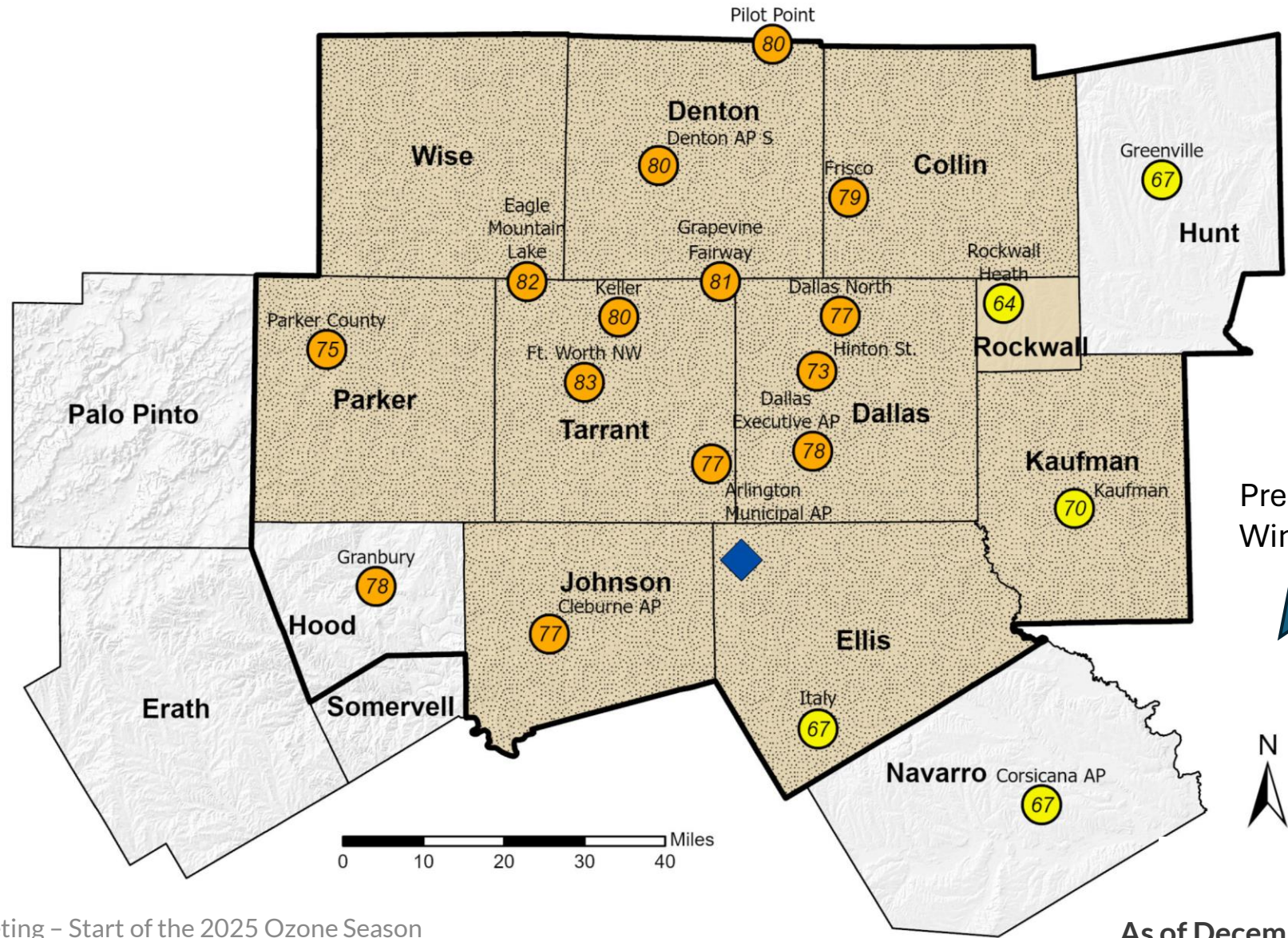
# Regulatory Ozone Monitors - Design Values 2024

**Legend**

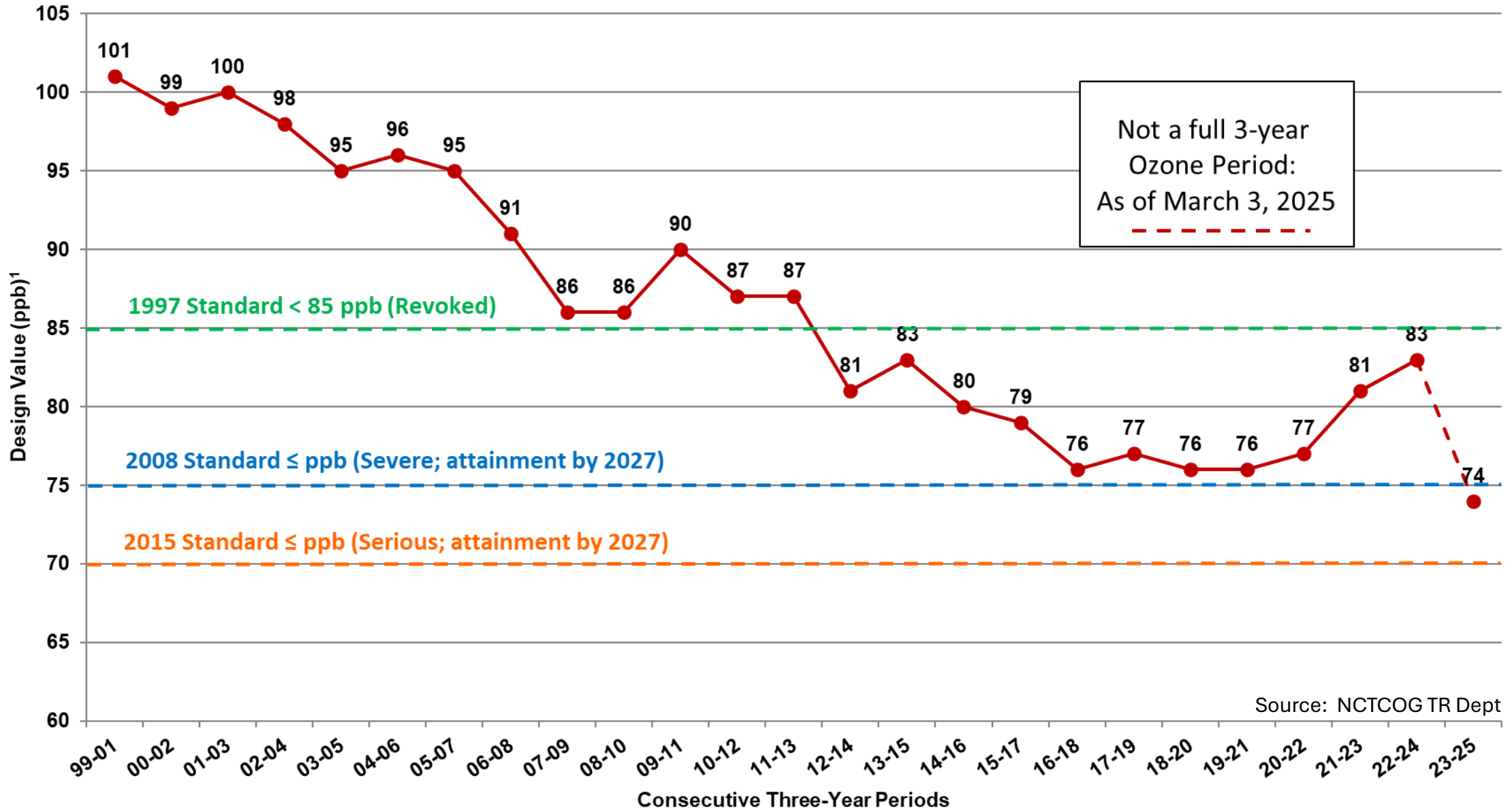
-  Metropolitan Planning Area
- Counties Designated
-  Nonattainment Under 2015 8-Hour Ozone NAAQS
-  Counties Designated Nonattainment Under 2008 8-Hour Ozone NAAQS
-  Temporarily Out of Service

Sept 2024

-  62 - 69
-  70 - 85

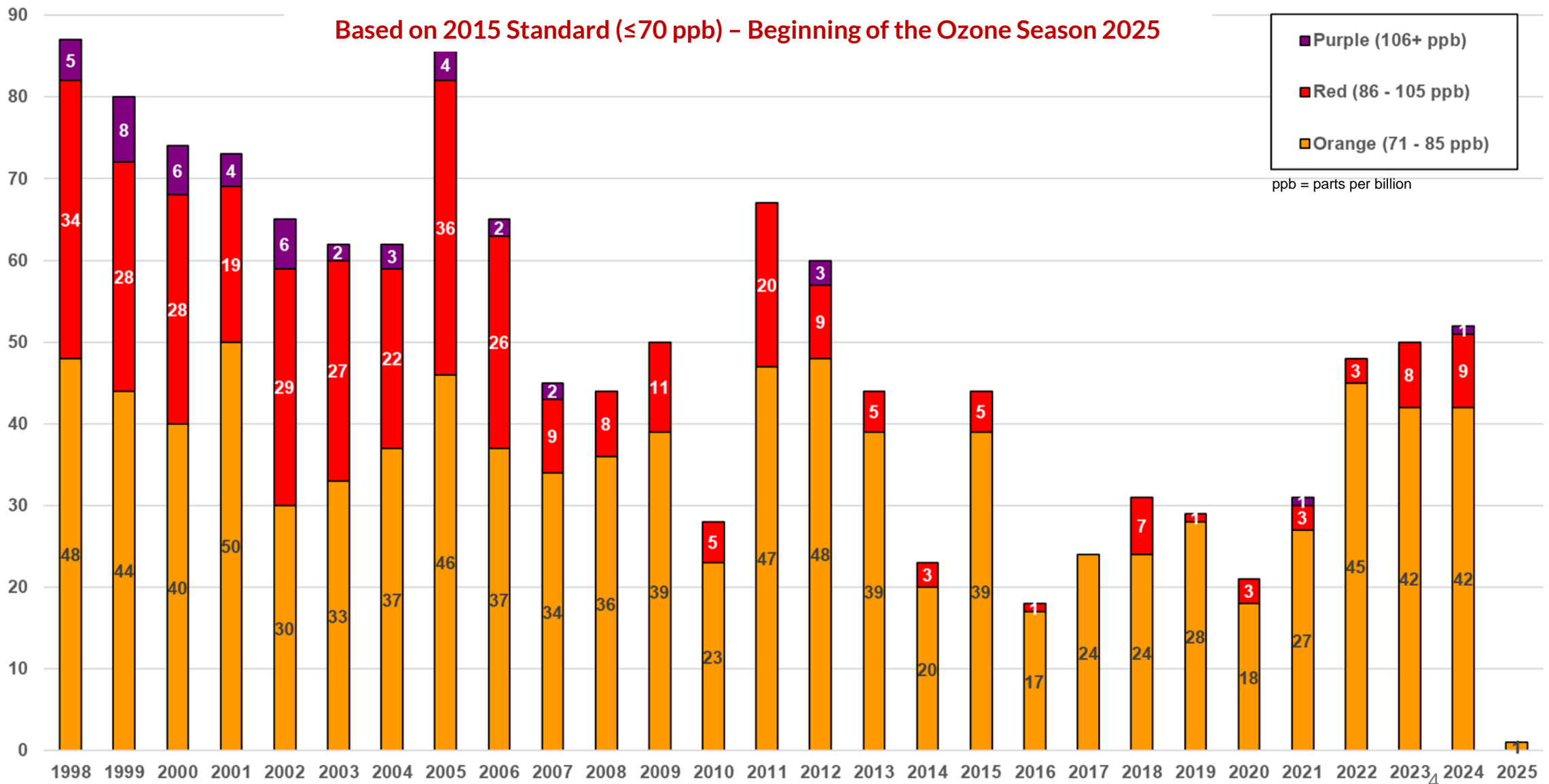


# 8-Hour Ozone Design Value Trends



<sup>1</sup>Attainment Goal - According to the US EPA National Ambient Air Quality Standards, attainment is reached when, at each monitor, the *Design Value* (three-year average of the annual fourth-highest daily maximum eight-hour average ozone concentration) is equal to or less than 70 parts per billion (ppb).

# Regulatory 8-Hour Ozone NAAQS - Exceedance Trends

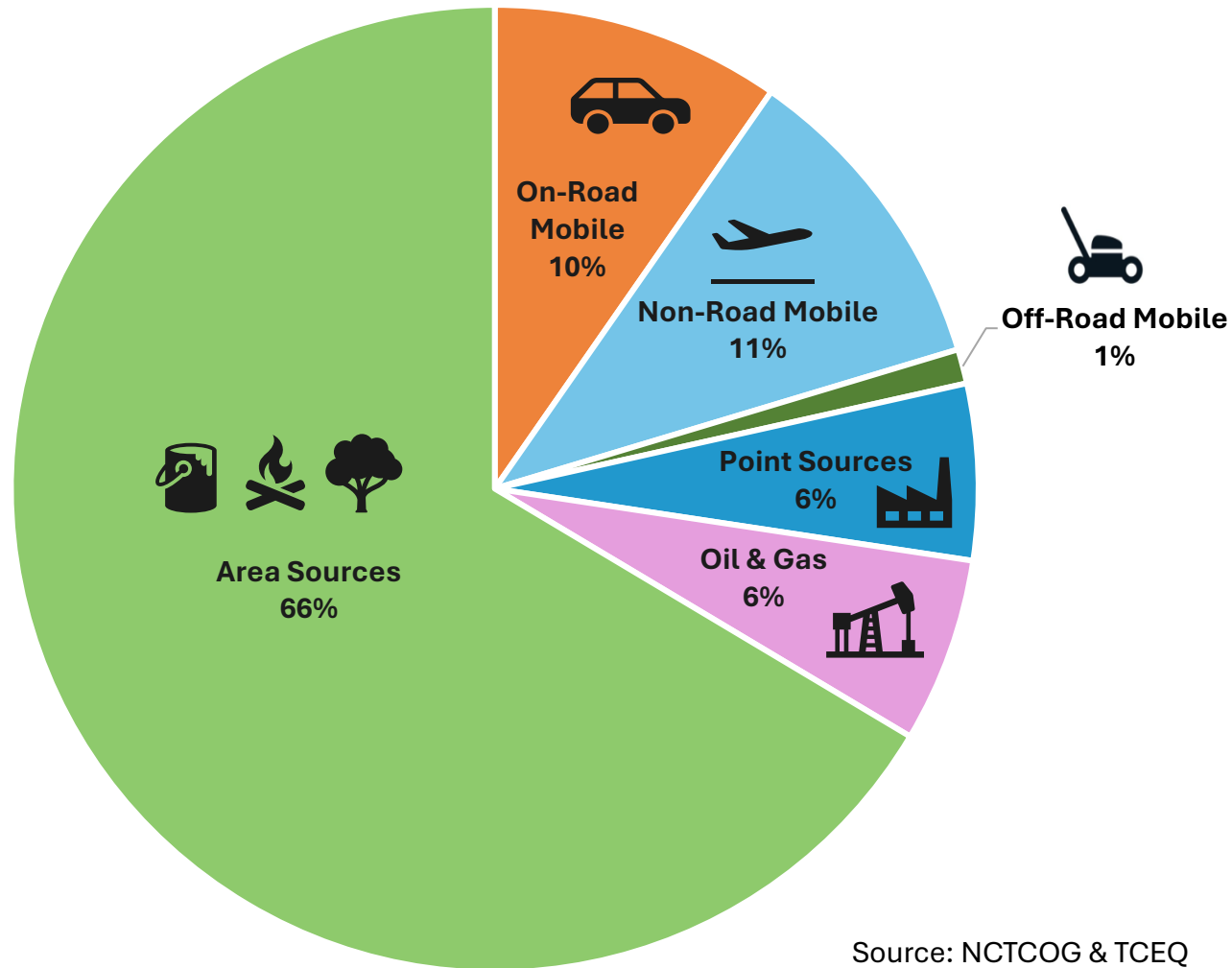


Exceedance Level indicates daily maximum eight-hour average ozone concentration.  
 Exceedance Levels are based on Air Quality Index (AQI) thresholds established by the EPA for the revised ozone standard of 70 ppb.

Source: TCEQ [http://www.tceq.state.tx.us/cgi-bin/compliance/monops/8hr\\_monthly.pl](http://www.tceq.state.tx.us/cgi-bin/compliance/monops/8hr_monthly.pl)

# Ground-Level Ozone: Precursor VOCs

2023 Inventory of Volatile Organic Compounds (VOC)



Optimum conditions for the formation of ozone include high temperatures and low winds.

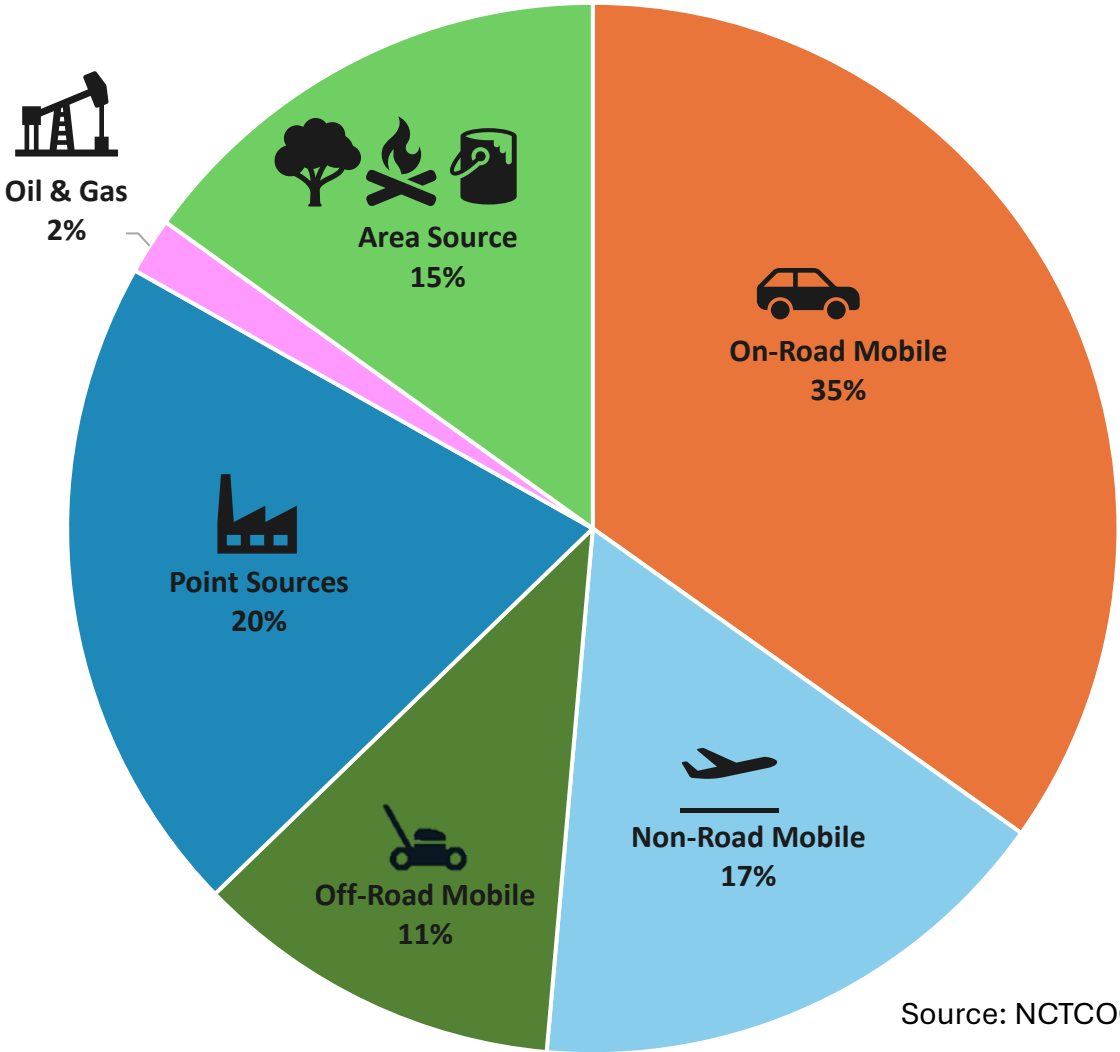
Not all emissions are manmade! Plants emit a lot of VOCs – but we have no control over this.

Source: NCTCOG & TCEQ



# Ground-Level Ozone: Precursor NOx

2023 Inventory of Nitrogen Oxides (NO<sub>x</sub>)



Our region has less NO<sub>x</sub> than VOC, making it *NO<sub>x</sub> limited*. VOCs are abundant, the formation of ozone depends on the availability of NO<sub>x</sub>. Therefore, many air quality improvement initiatives focus on the reduction of NO<sub>x</sub>.

Since 2006 the DFW Region has reduced its NO<sub>x</sub> emission by almost 2/3s. Yet the Ozone DV is going up in recent years (DV 2022). Why?

Source: NCTCOG & TCEQ



# 2008 Ozone National Ambient Air Quality Standards Attainment Scenario (75ppb)

Monitor Values as of March 3, 2025 – Start of the Ozone Season March 1

Five Highest Monitors	4 <sup>th</sup> Highest Value for Season			Current 2025 Ozone Season Design Value
	2023	2024	2025	
Eagle Mountain Lake	81	89	52	74
Keller	80	88	52	73
Fort Worth Northwest	84	85	47	72
Frisco	82	84	51	72
Denton Airport South	78	84	49	70

Based on 2023-2025 TCEQ ozone monitor data



# Consequences of Not Reaching Attainment for the 2008 Standard by 2027

## Transportation Sector

- Inability to implement Mobility 2050 Plan - Multi Modal Transportation Plan
- More congestion and higher travel time

## Public Health

- Prolonged Health Impacts

## Financial/ Economic Impacts

- Major Source Emissions (Section 185) Fees - \$45mio – Industry & Municipalities

## Population & Employment Development

- Should not be a function of AQ





# Current Local Air Quality Programs

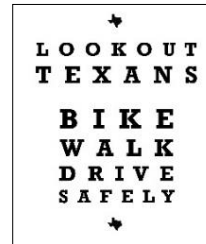
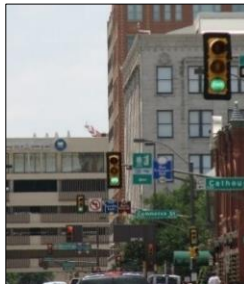
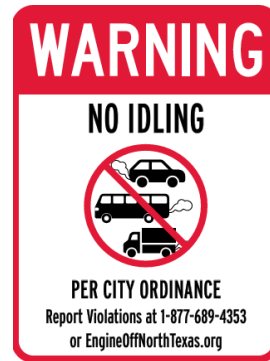
October 2024



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Dallas-Fort Worth  
CLEAN CITIES



FREIGHT NORTH TEXAS



# How to Get Involved

Resources and programs are available at [AirNorthTexas.org](https://AirNorthTexas.org) to help North Texans incorporate these clean air actions into their routines or organizations.



# FOR MORE INFORMATION

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