

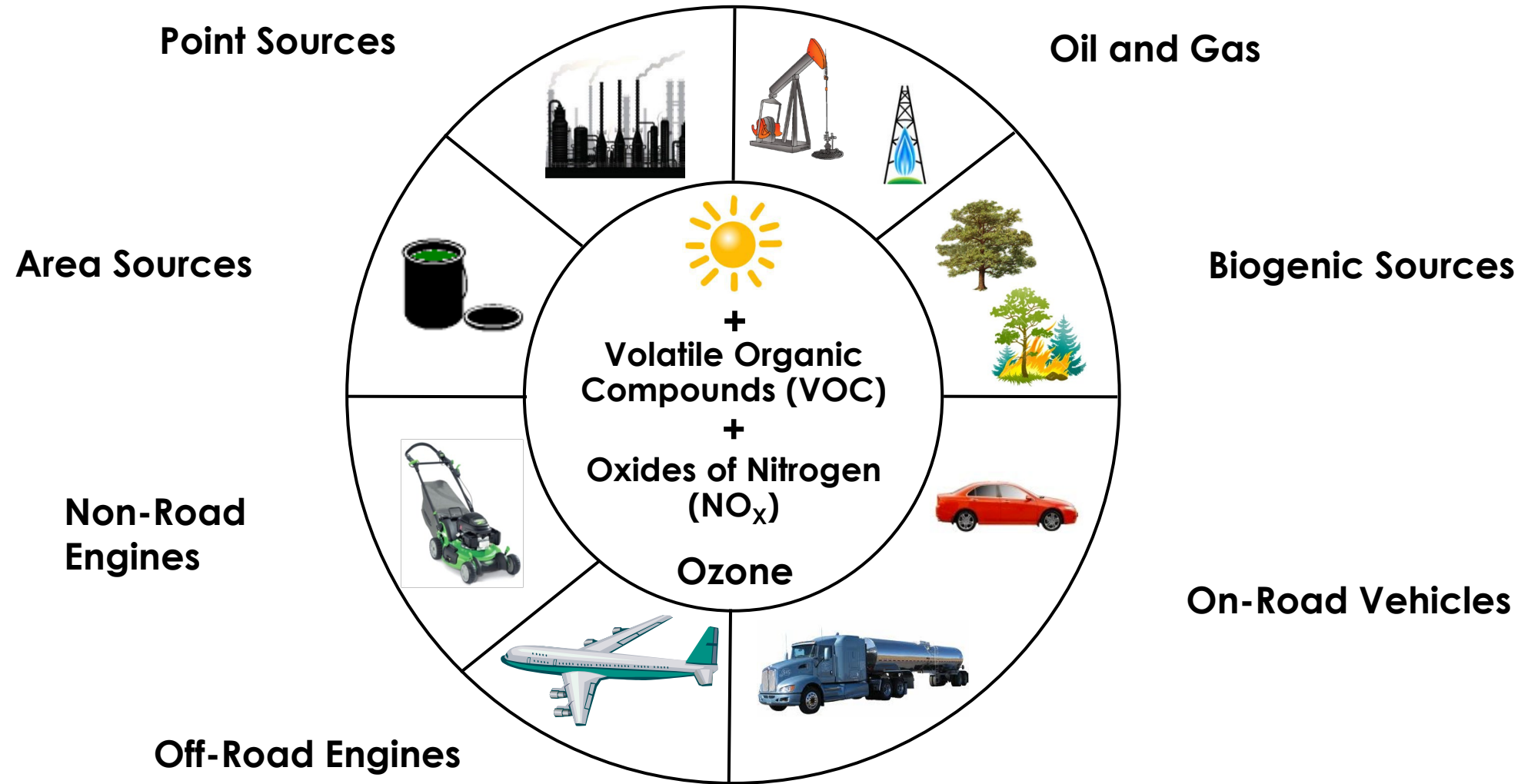
# End of 2022 Ozone Season

NCTCOG PUBLIC MEETING • NOVEMBER 7, 2022

NICK VAN HAASEN, AIR QUALITY PLANNER

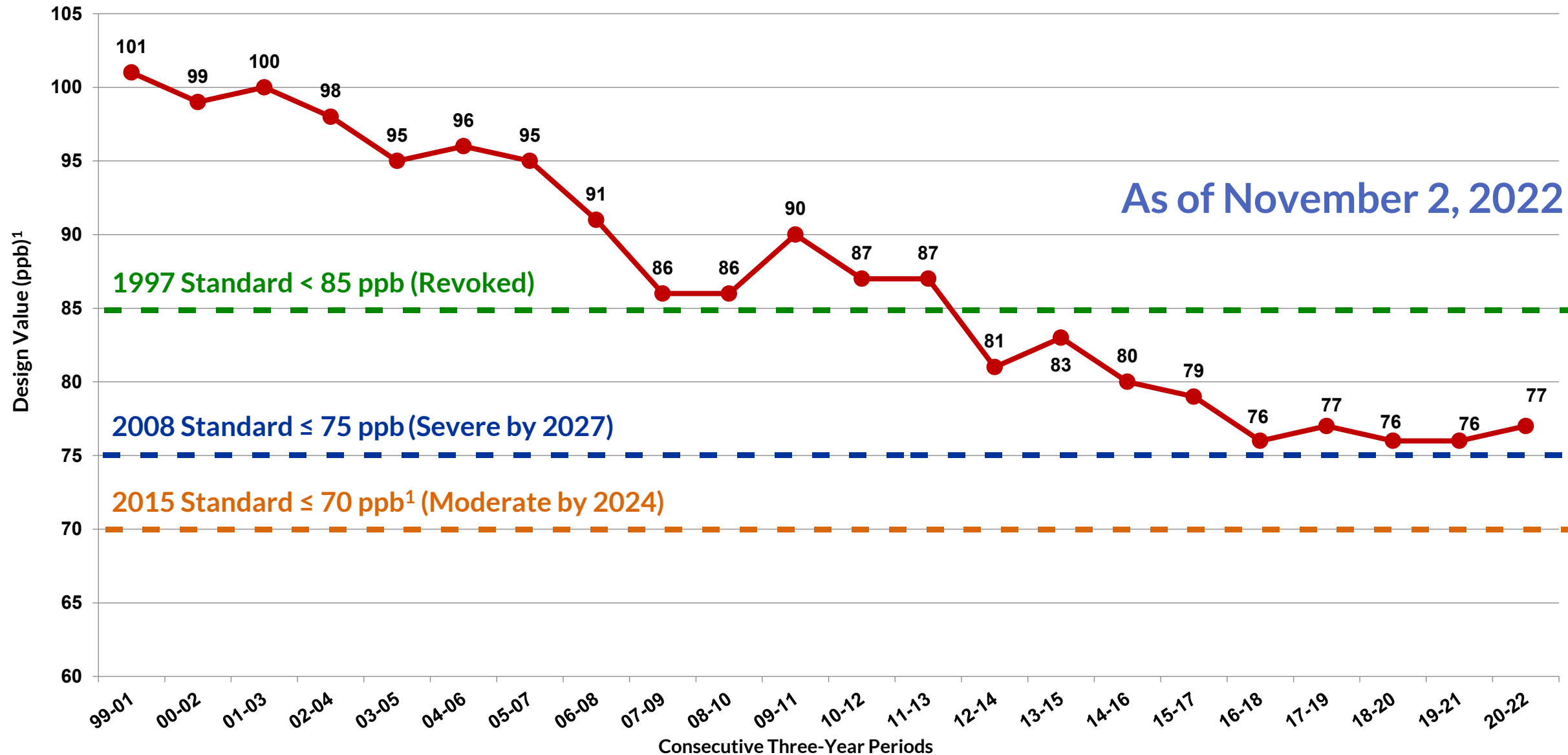


# Ozone Formation



Optimum conditions for the formation of ozone include high temperatures and low winds. Sections are not to scale and are for illustrative purposes only.

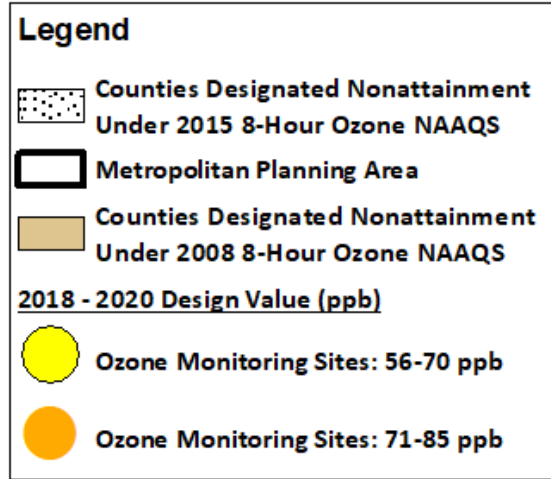
# Ozone Design Value Trends



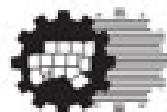
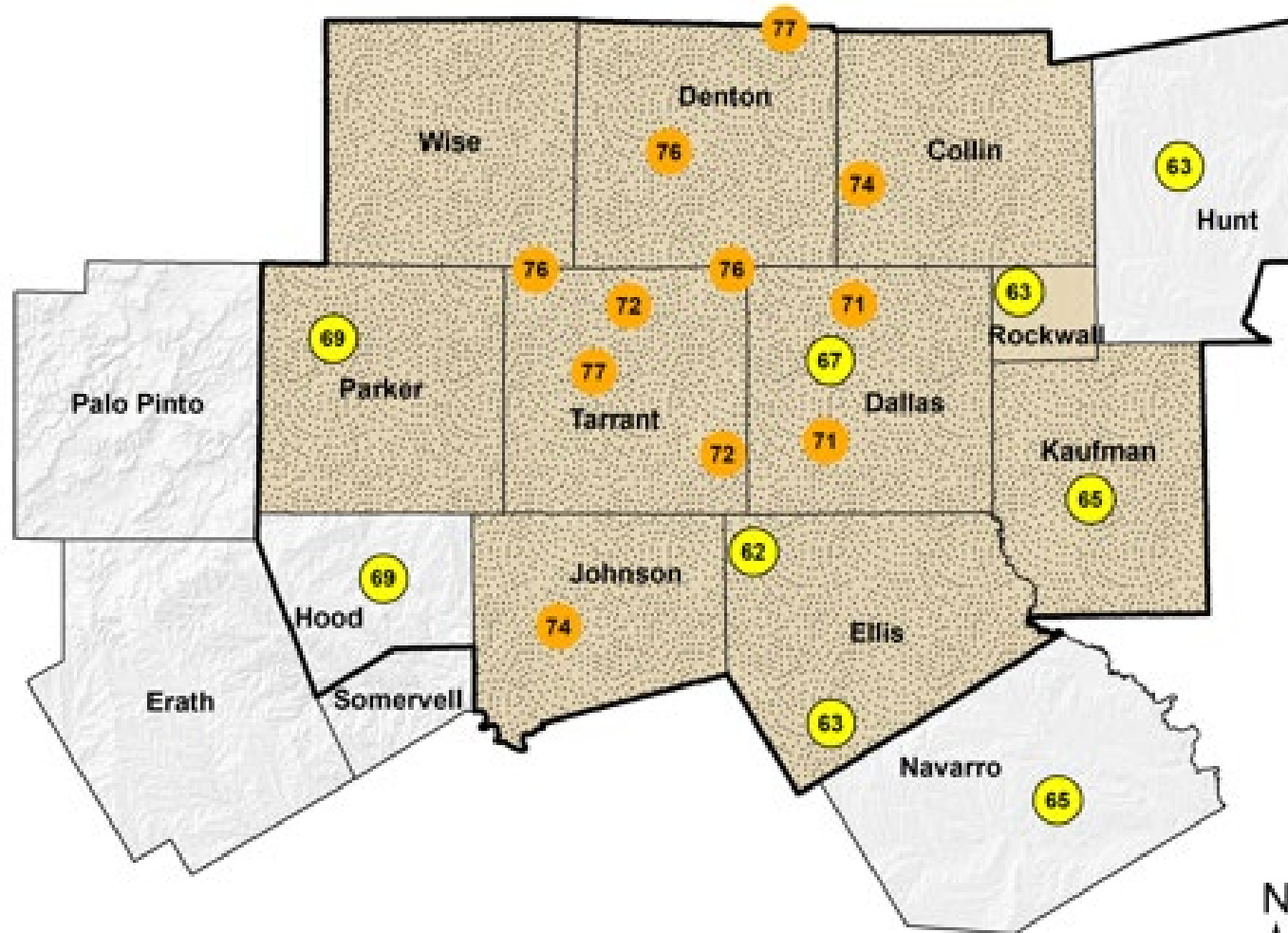
<sup>1</sup>Attainment Goal - According to the US EPA National Ambient Air Quality Standards, attainment is reached when, at each monitor, the *Design Value* (three-year average of the annual fourth-highest daily maximum eight-hour average ozone concentration) is equal to or less than 70 parts per billion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

# Monitor Locations with Associated 4<sup>th</sup> Highest Value

As of November 2, 2022



Colors represent Air Quality Index Breakpoints



North Central Texas  
Council of Governments



October 2022

# 2022 Ozone Season Monitor Data

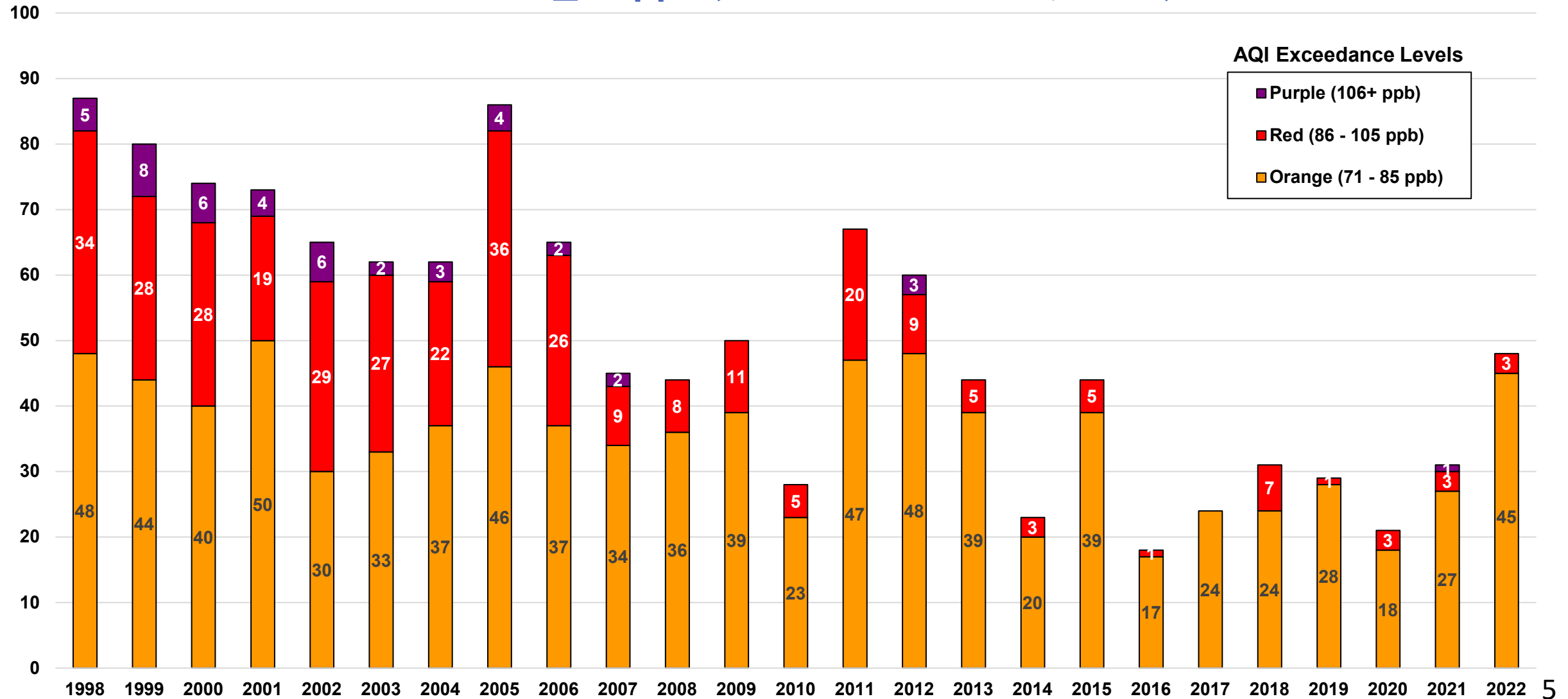
## Five Highest Monitors

Five Highest Monitors	4 <sup>th</sup> Highest Value for Season			2022 Ozone Season Design Value
	2020	2021	2022	
Denton Airport South	71	81	78	76
Eagle Mountain Lake	76	76	77	76
Grapevine Fairway	74	70	81	76
Ft. Worth Northwest	75	76	80	77 ←
Pilot Point	71	85	77	77 ←

**Design Value = 3-Year Average of Fourth Highest Value**

# 8-Hour Ozone NAAQS Exceedance Trends

Based on  $\leq 70$  ppb (As of November 2, 2022)



## AQI Exceedance Levels

- Purple (106+ ppb)
- Red (86 - 105 ppb)
- Orange (71 - 85 ppb)

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)  
ppb = parts per billion

# Reclassification Due to Failure to Attain Stricter Standards

## Going from Serious Classification to Severe:

**Major source threshold decreased to 25 TPY (from 50 TPY)**

**Impacts businesses that require CAA permitting for new/continued operations**

**Penalty fee program for major sources**

**Per ton penalty fee increase on major sources if the area does not meet required reductions**

**New Source Emission Offset ratio increased to 1.3:1 (from 1.2:1)**

 **Low VOC reformulated gas**

**No implications, because our region has already opted in previously**

 **VMT growth offset required**

**Analysis completed and no transportation control strategies are needed**

*A continued and thorough assessment of regional implications is ongoing.*

# Timeline and Milestones

## 2008 Ozone Standard (<75ppb)

Attainment Date:  
No later than **July 20, 2027**

*Attainment will be based on  
2024-2026 Ozone Monitor Data*

## EPA NAAQS Classifications

Marginal  
(3 years to attain)

Moderate  
(6 years to attain)

Serious  
(9 years to attain)

Severe  
(15/17 years to attain)

Extreme  
(20 years to attain)

## 2015 Ozone Standard (<70ppb)

Attainment Date:  
No later than **August 3, 2024**

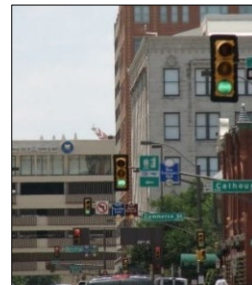
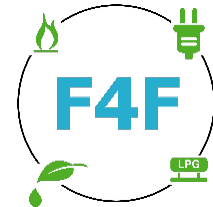
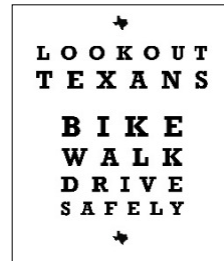
*Attainment will be based on  
2021-2023 Ozone Monitor Data*



# Sample of Air Quality Initiatives



Rideshare. Record. Reward.



# Helpful Websites

To learn more about our work to improve air quality in our region, please visit our air quality webpage:

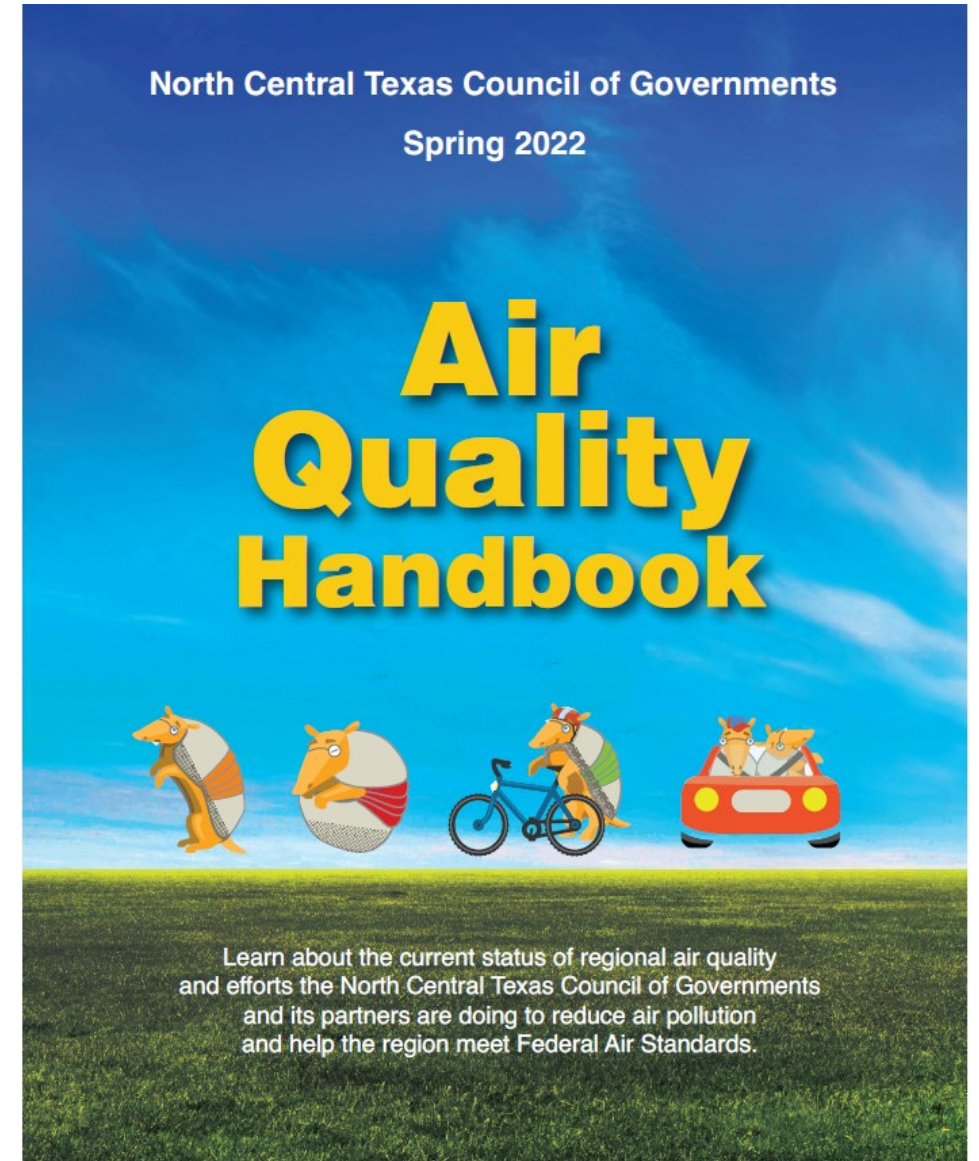
<https://www.nctcog.org/trans/quality/air>

The Air Quality Handbook contains regional air quality programs; the health impacts of ozone and other air pollutants; and what you can do to help:

[https://nctcog.org/nctcg/media/Transportation/Docs/Maps/Quality/Air/AQ2020printer\\_Spring.pdf](https://nctcog.org/nctcg/media/Transportation/Docs/Maps/Quality/Air/AQ2020printer_Spring.pdf)

Questions?

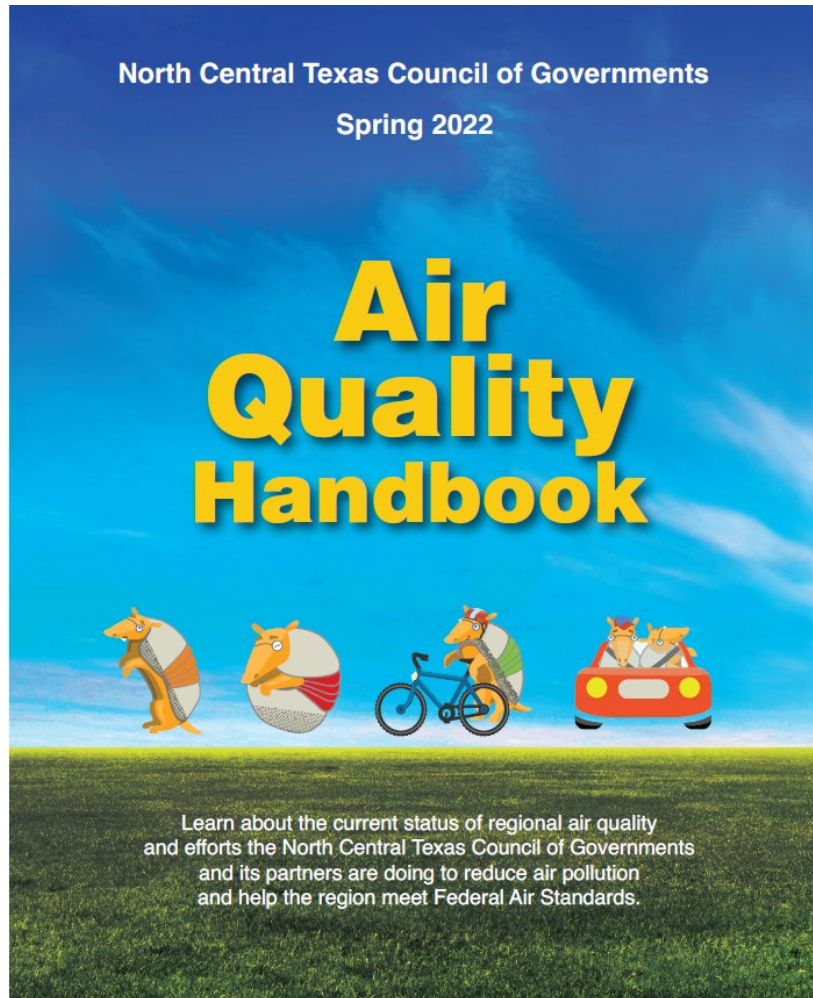
Recommendations?



# Air Quality Handbook

## Bilingual

### English



[https://nctcog.org/nctcg/media/Transportation/DocsMaps/Quality/Air/AQ2022printer\\_Spring.pdf](https://nctcog.org/nctcg/media/Transportation/DocsMaps/Quality/Air/AQ2022printer_Spring.pdf)

### Spanish



<https://www.nctcog.org/nctcg/media/Transportation/DocsMaps/Quality/Air/AQ2022SPANISH.pdf>

# FOR MORE INFORMATION

**CHRIS KLAUS**  
Senior Program Manager  
[cklaus@nctcog.org](mailto:cklaus@nctcog.org)  
817-695-9286

**VIVEK THIMMAVAJJHALA**  
Transportation System Modeler  
[vthimmavajjhala@nctcog.org](mailto:vthimmavajjhala@nctcog.org)  
817-704-2504

**JENNY NARVAEZ**  
Program Manager  
[jnarvaez@nctcog.org](mailto:jnarvaez@nctcog.org)  
817-608-2342

**NICK VAN HAASEN**  
Air Quality Planner  
[nvanhaasen@nctcog.org](mailto:nvanhaasen@nctcog.org)  
817-608-2335

<https://www.nctcog.org/trans/quality/air/ozone>