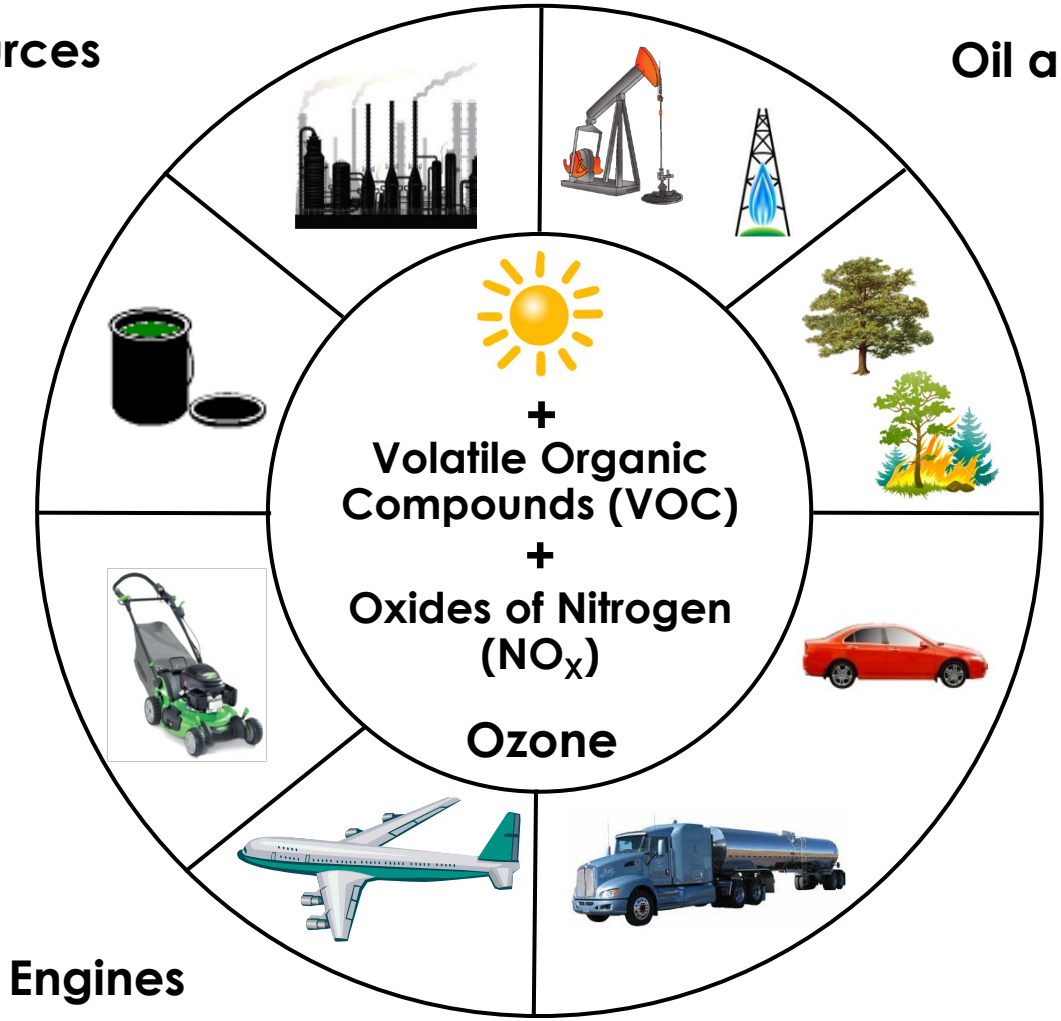
End of 2021 Ozone Season: Compliance with Federal Requirements and Future Outlook

NCTCOG Public Meeting • December 2021

Nick Van Haasen, Air Quality Planner

North Central Texas
Council of Governments

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.

Monitor Locations with Design Value

As of November 30, 2021

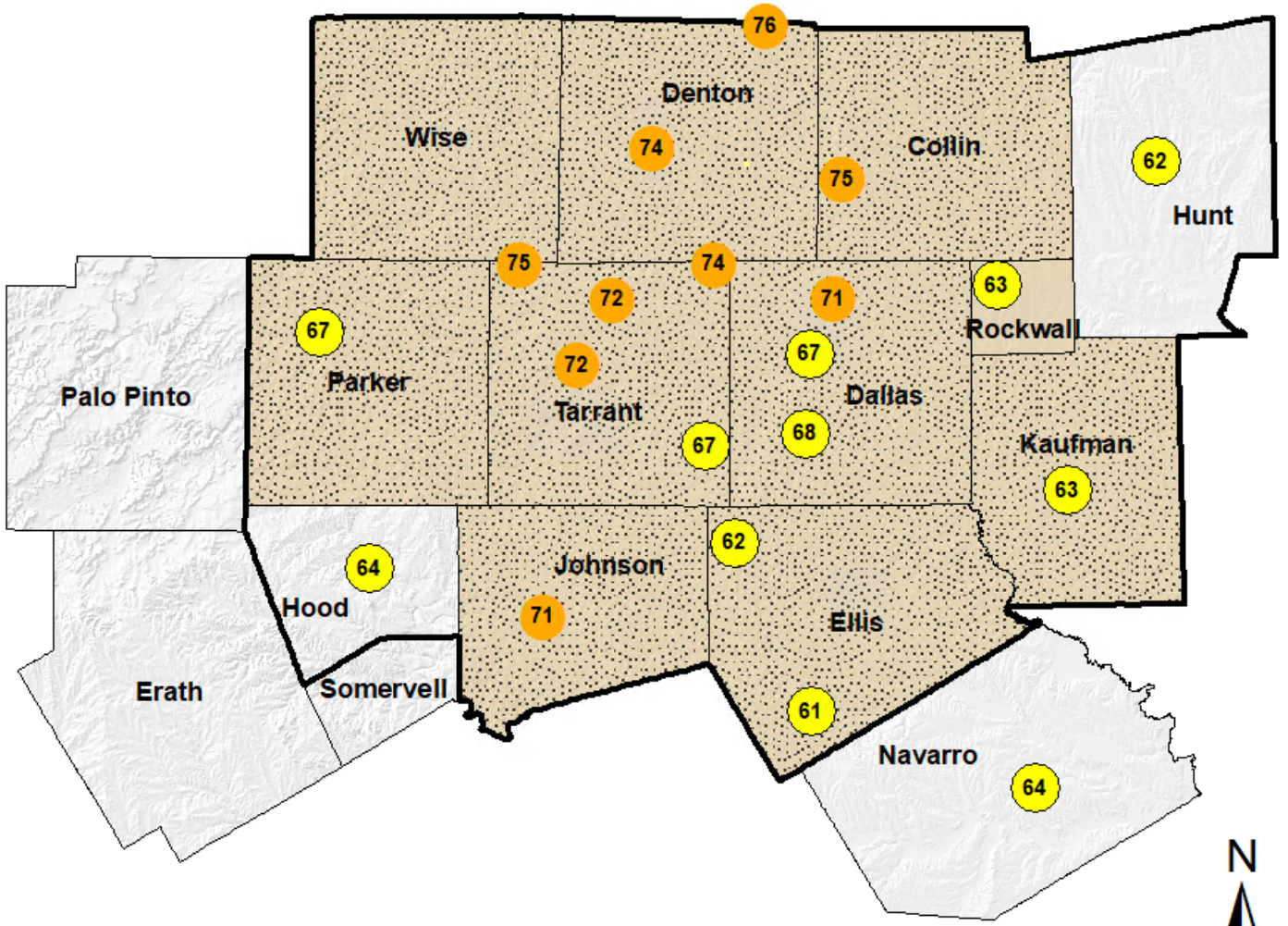
Legend

- Counties Designated Nonattainment Under 2015 8-Hour Ozone NAAQS
- Metropolitan Planning Area
- Counties Designated Nonattainment Under 2008 8-Hour Ozone NAAQS

2018 - 2020 Design Value (ppb)

- Ozone Monitoring Sites: 56-70 ppb
- Ozone Monitoring Sites: 71-85 ppb

Colors represent Air Quality Index Breakpoints



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Miles: 0 20 40 60 80

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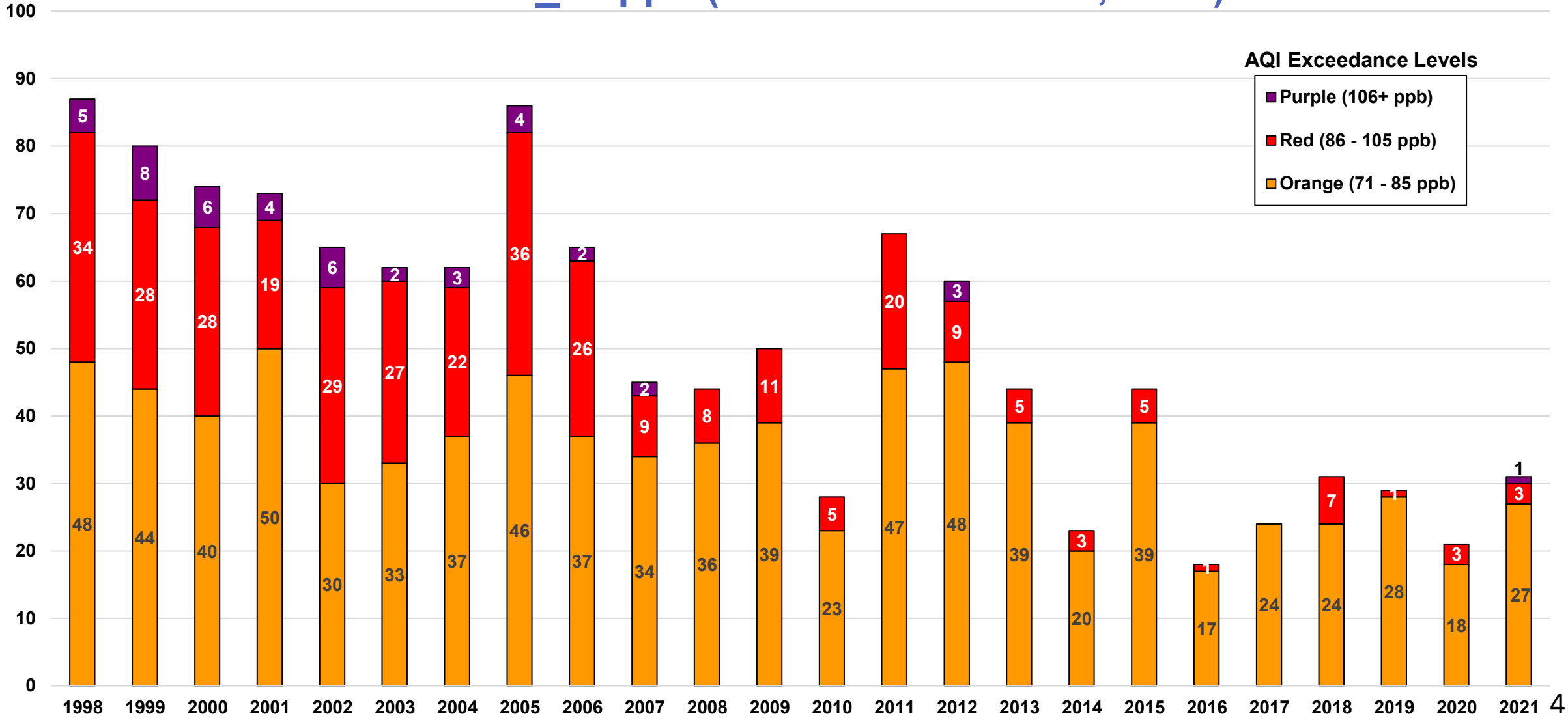
November 2021

8-Hour Ozone NAAQS Exceedance Trends

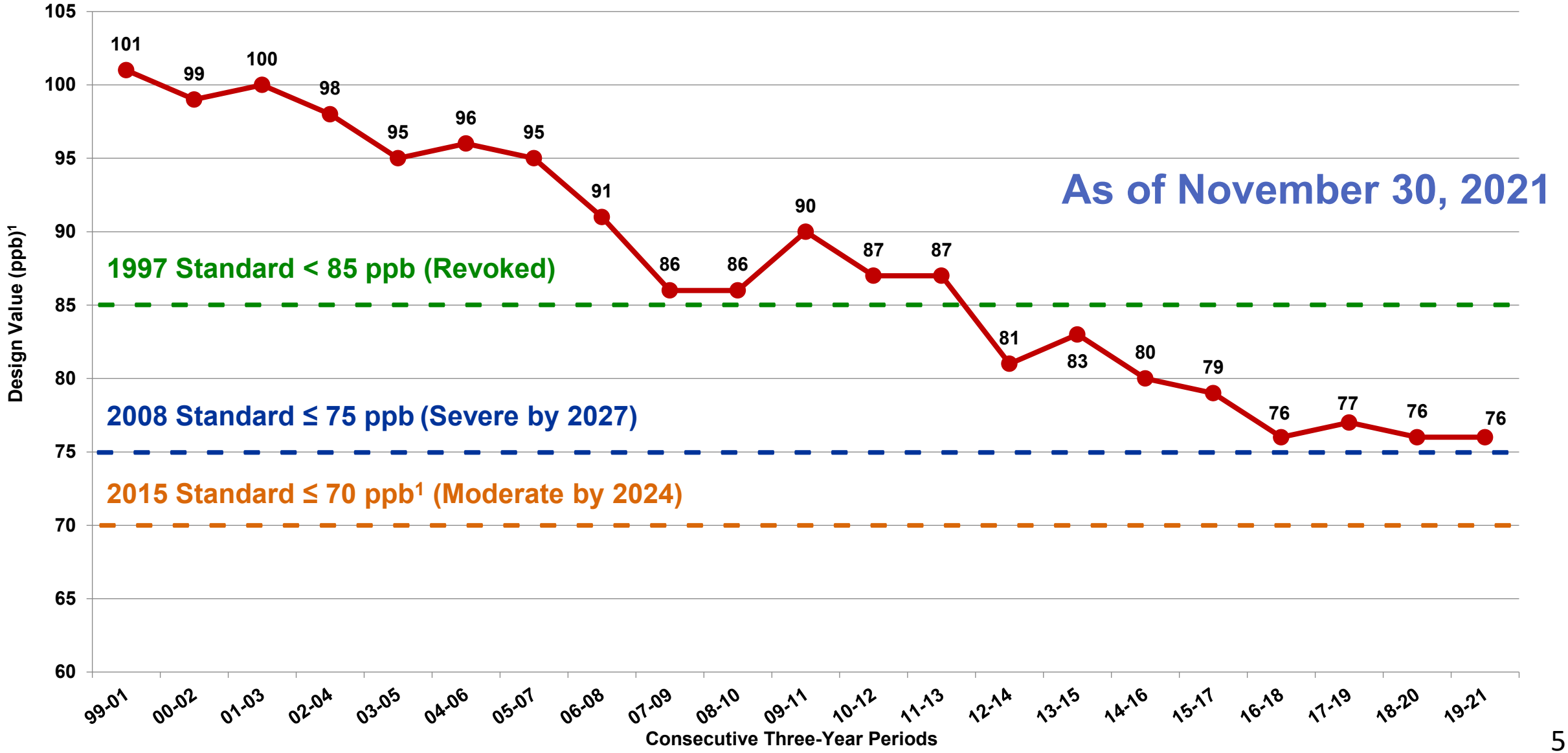
Based on ≤70 ppb (As of November 30, 2021)



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 for the revised ozone standard of 70 ppb.

Source: TCEQ, http://www.tceq.state.tx.us/cgi-bin/compliance/monops/8hr_monthly.pl
ppb = parts per billion

Ozone Design Value Trends



[1]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).

Source: NCTCOG TR Dept

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

Air Quality Control Strategies and Local Programs

try parking it
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ALTERNATIVE FUEL VEHICLES

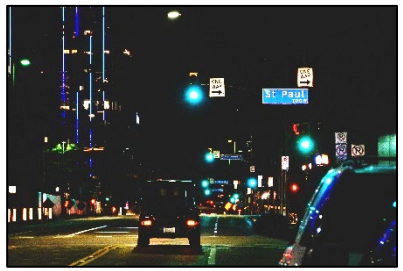
Clean Cities
U.S. Department of Energy

Dallas-Fort Worth CLEAN CITIES

evnt
Electric Vehicles North Texas

REGIONAL SMOKING VEHICLE PROGRAM

Air North Texas



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GoSolarTexas.org

NED

FREIGHT NORTH TEXAS

Regional Freight Advisory Committee

Proud Supporter of SmartWay®

ENGINE OFF NORTH TX

Regional Emissions Enforcement Program

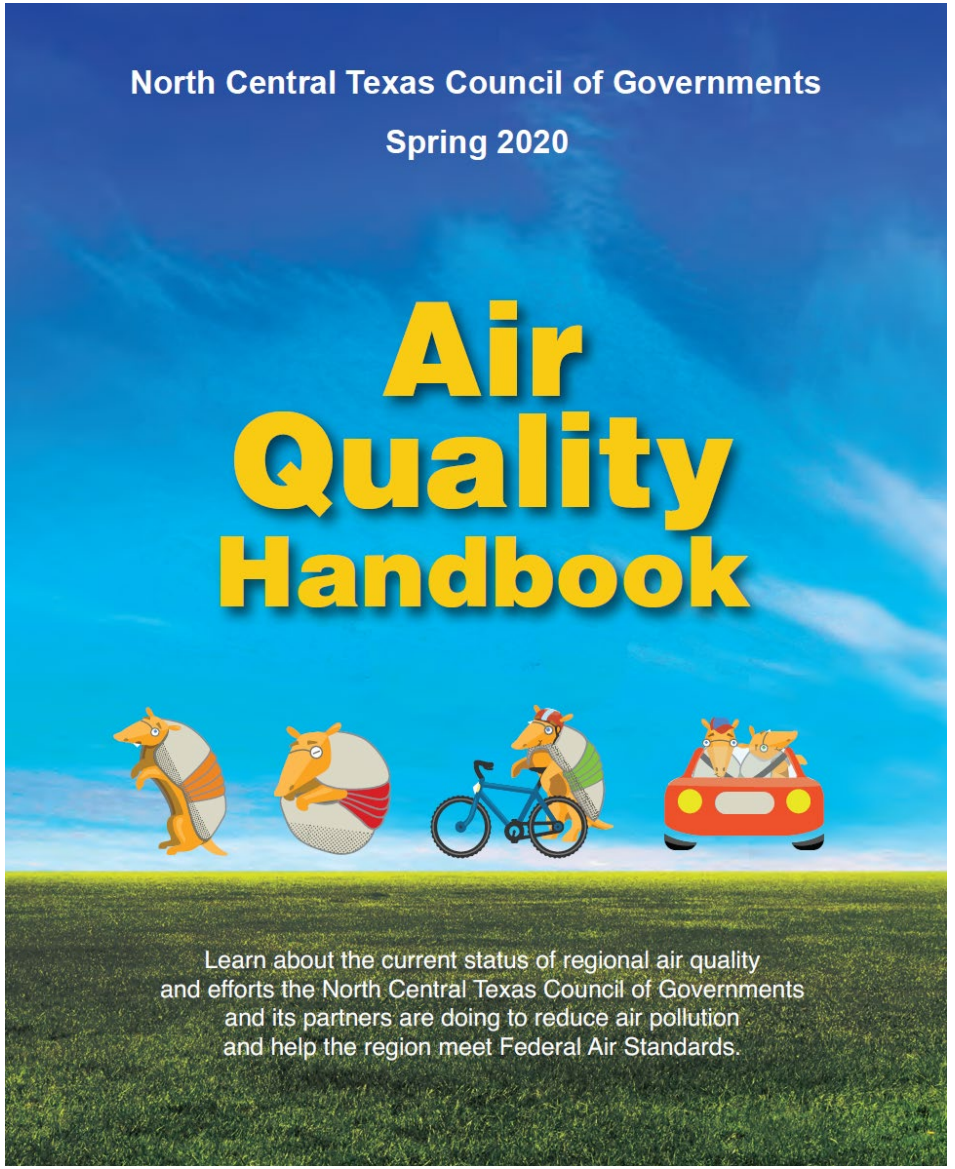
Helpful Websites

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/DocsMaps/Quality/Air/AQ2020printer_Spring.pdf

Questions?

Recommendations?



FOR MORE INFORMATION

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