

# **Air North Texas 2015-2016 Partner Awards**

**Regional Transportation Council  
November 10, 2016**



# Air North Texas

## Our Partners



Brookhaven College

DALLAS COUNTY COMMUNITY COLLEGE DISTRICT



American Lung Association – DFW Region

Brookhaven College

City of Anna

City of Arlington

City of Bedford

City of Cedar Hill

City of Dallas

City of Denton

City of Fort Worth

City of Grand Prairie

City of Grapevine

City of Kennedale

City of Mesquite

City of North Richland Hills

City of Plano

City of Richardson

Cedar Valley College

DART

DCTA

DFW Airport

Health and Wellness Alliance for Children

Hood County

Insta-brite Technologies

NCTCOG

The North Texas Commission

Dallas County

Parker County

Tarrant County

TxDOT – Dallas

TxDOT – Fort Worth

U.S. Green Building Council – North Texas Chapter

University of North Texas Health Science Center

University of Texas at Arlington

UT Southwestern

The-T

# Air North Texas 2015-2016 Partner Awards

## Award Categories

- **Outstanding Partners**
  - Outstanding Advertising
  - Outstanding Outreach
  - Outstanding Partner Involvement
  - Outstanding Initiative
  - Outstanding Media Engagement
  - Arlo Ambassador
- **2015-2016 Air North Texas Partner of the Year**




# Air North Texas 2015-2016 Partner Awards Outstanding Advertising



4

Hood County Clean Air Coalition

P.O. Box 743  
123 E. Pearl St. #200  
Granbury, Texas 76048  
682-936-4049  
mmckenzie@hoodcountycleanair.com  
Find us on the Web:  
[Company URL]



**5** **Lawn Care Tips that Help Take Care of Texas**

**Water Wisely**  
Avoid watering in the middle of the day. If using sprinklers, use larger droplets close to the ground.

**Use Native Texas Plants**  
Plants that are native to Texas help conserve water and protect the soil, and require less pesticide, fertilizer, and maintenance—all saving you time and money. The deep root systems of many native plants also increase the soil's capacity to store water and reduce runoff.

**Use Less Pesticide and Fertilizers**  
More is not always better. To minimize environmental impact, apply pesticides and fertilizers according to label's directions, and only use the recommended amount.

**Collect and Use Rainwater**  
Lawn and garden watering makes up 30 to 50 percent of total household water use. Collecting rainwater for landscape use is great for the plants and can save you water and money.

**Try Composting**  
Leaves, grass clippings, and debris make up 20 percent of household waste. Composting reduces the need for outdoor watering.

**Take Care of Texas—It's the only one we've got!**  
TakeCareOfTexas.org

Hood County Clean Air Coalition

P.O. Box 743  
123 E. Pearl St. #200  
Granbury, TX 76048  
682-936-4049

Michelle McKenzie  
Air Quality Program Manager  
mmckenzie@hoodcountycleanair.com

Find us on the Web:  
www.hoodcountycleanair.com



**Maximize Your Cold Weather Gas Mileage**

**Six Tips for Increasing Wintertime Fuel Economy**

- 1. Park your car in the garage whenever you can. The engine won't run as long, and the battery won't drain as fast.
- 2. Use the type of oil recommended by your manufacturer for cold weather driving.
- 3. During holiday travel, remove roof racks, skis, and accessories as soon as possible. They can reduce fuel economy from 10% to 25% in windy conditions.
- 4. Plan your route in advance and avoid rush hour traffic.
- 5. Use cruise control when driving on highways.
- 6. Avoid idling your engine for more than 30 seconds at a time.

Take Care of Texas — It's the only one we've got!

Hood County Clean Air Coalition

June 2016, Issue 14



Source: www.pixabay.com

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## HCCAC Board Members

- Dave Porcher, Chairman
- John Campbell, Diamond C
- Mark Clark, Luminant
- Bob Cornett, Mayor, City of Cresson
- James Deaver, Hood County Commissioner
- Joe Drew, Vista Sand
- Mark Franco, Total Equipment and Service (TEAS)
- Nin Hulet, Mayor, City of Granbury
- Terry Johnson, Mayor, City of Tolar

## Hood County Clean Air News

### Solar Training and Webinar Series

The North Central Texas Council of Governments (NCTCOG) and the State Energy Conservation Office (SECO) are sponsoring a summer solar PV webinar series and training opportunities. Upcoming webinars include Community Solar in Texas on July 8<sup>th</sup> at 11:30 am which focuses on providing information to electric utility cooperatives and municipal owned utilities who are interested in exploring opportunities for community solar programs and Putting Underutilized Land to Work on July 27<sup>th</sup> at 11:30 am which focuses on providing information to local governments including school districts, special districts, and business/industry sectors interested in going solar with topics such as solar applications on landfills, brownfields, and wastewater treatment plants.

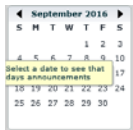
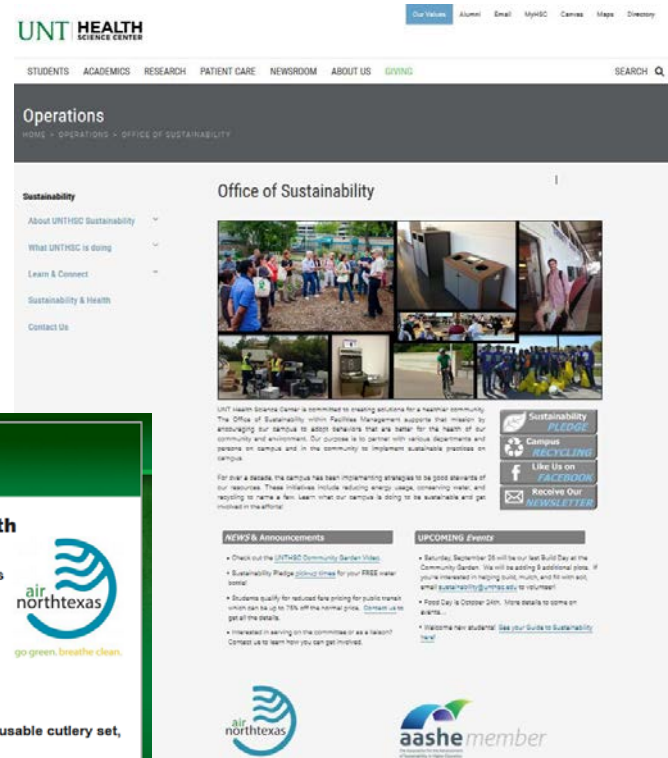
The summer solar PV training series will occur in Austin on June 23-24, in San Antonio on June 27-28, and in Midland/Odessa on June 30-July 1. These training sessions include topics of solar for local governments, financing solar energy systems, fire inspector training and fire code compliance for solar professionals. More information is found at [gosolartexas.org](http://gosolartexas.org).

GRANT FROM THE ENVIRONMENTAL QUALITY THROUGH GRANTS FROM THE STATE OF TEXAS. The content, findings, the author(s) and do not necessarily represent the views of the TCEQ.



# Air North Texas 2015-2016 Partner Awards

## Outstanding Outreach



**UNT HEALTH SCIENCE CENTER DAILY NEWS**

**Student News**

**Title:**  
Pledge for Clean Air - Win Prizes!

**Posted Date:**  
06/21/2016

**Description:**  
DO ONE THING FOR CLEAN AIR Friday, June 24th is Clean Air Action Day (CAAD), which is the first Friday of each summer for North Texans to do one thing to improve the air quality in our community. Do the CAAD Action Pledge and commit to at least one action on June 24th. A random drawing will be held on June 24th for all action pledge participants (pledges must be completed by June 23rd). Prizes include:  
 • \$25 gift card to Amazon.com • 10 sustainability goodie bags (canvas tote, water bottle, reusable cutlery set, and pen)

Join the Office of Sustainability and do your part to improve our area's health and environment! Take the pledge by clicking on the link.

**URL:**  
[https://unthsc.qualtrics.com/jfe1/form/SV\\_aaQw0mAQvF5E2uV](https://unthsc.qualtrics.com/jfe1/form/SV_aaQw0mAQvF5E2uV)

[return to today's announcements](#)

For content questions, contact [Sandy Bauman](#).  
 For technical problems contact the [submaster](#).  
 © 2016, UNT Health Science Center  
 3500 Camp Bowie Blvd, Fort Worth, Texas 76107, 817.735.2000  
 UNT System | UNT | UNT Dallas  
 Ethics Hotline | Emergency Management  
 Campus Emergency 817.735.2600  
 Texas Veterans Portal

**UNT HEALTH SCIENCE CENTER**

**Clean Air Action Day (CAAD) - June 24th**  
**Action Pledge**

CAAD is on the first Friday of the summer each year, and this year it is on June 24th. Take action for clean air and do one thing to improve air quality for the health of our community!

A random drawing will be held on June 24th for all action pledge participants (pledges must be completed by June 23rd). Prizes include:

- 1 - \$25 gift card to Amazon.com
- 10 - Sustainability Goodie Bags (canvas tote, water bottle, reusable cutlery set, and pen)

*Thanks for taking the action pledge! (click on the arrow below to do the pledge)*

**UNT HEALTH SCIENCE CENTER**  
 OFFICE OF SUSTAINABILITY

[airnorthtexas](#)  
 go green. breathe clean.



# Air North Texas 2015-2016 Partner Awards

## Outstanding Partner Involvement



City of Fort Worth Retweeted  
**NCTCOGTransportation** @NCTCOGrans · Sep 12  
 Electric vehicles to be celebrated Sept. 17. #NDEW #texasEV  
 #DFWCleanCities  
[bit.ly/2cf2laF](http://bit.ly/2cf2laF)  
 Giovanni Capriglione and Grapevine Mills

Join us for  
**NATIONAL DRIVE ELECTRIC WEEK**

drive electric  
 ring of EVs in  
 as!

come show  
 cle! #texasEV

Report Pay Search ...

Home > News

### Clean Air Action Day participation grows 28 percent

Posted Sept. 8, 2015

Clean Air Action Day, a day encouraging North Texans to team up to make clean air decisions, experienced tremendous growth this year, with many residents committing to make small changes in an effort to improve the environment.

Twenty-eight percent more residents participated in this year's event, held June 26, and commitments increased by almost as much. The most popular commitments for 2015 were maintaining vehicles, avoiding idling and combining trips.

One commitment showing a significant increase in participation was bicycling or walking, growing from 15 to 20 percent in 2015.

Log your commitments online and consider striving for better air quality all year long.

Ten North Texas counties are in nonattainment for the pollutant ozone and have until 2017 to meet the federal standard.

Get articles like this in your inbox weekly. [Subscribe to City News](#)

**City News**

- [DFW falls to 18th among traffic-jammed metros](#)
- [Toll-free: Drive, earn, win, repair](#)
- [Injured vets tackle sounds of war in Soldier Ride](#)
- [Feds agree with Dallas-Houston high-speed rail route](#)
- [Clean Air Action Day participation grows 28 percent](#)
- [More News »](#)

**FW** City Meetings  
 Watch Online Now

**Public Notices**

City of Fort Worth @cityoffortworth · Aug 28

**#AirCheckTexas** taking vehicle replacement applications

**AirCheckTexas taking vehicle replacement applicat...**

North Texans whose vehicles have failed the emissions portion of the state inspection in the past 30 days or are at least 10 years old are encouraged to apply for assi...

fortworthtexas.gov

2 5





# Air North Texas 2015-2016 Partner Awards

## Outstanding Media Engagement



Live Green in Plano shared Dallas Area Rapid Transit (Official DART page)'s photo.  
October 16, 2015

Make a clean air choice this weekend! Ride the DART to Downtown Plano to enjoy the variety of shops, restaurants and nightlife in this walkable neighborhood. #AirNTx

Learn more: [www.airnorthtexas.org](http://www.airnorthtexas.org)



Dallas Area Rapid Transit (Official DART page)  
October 16, 2015

T.G.I.F! Celebrate the start of the weekend by DARTing over to Vickery Park by way of the Red Line to Downtown Plano Station. With its friendly atmosphere and huge selection of craft beers, you're guaranteed to leave happy!  
<http://datable.dart.org/datable-gem/vickery-park/>

Live Green in Plano shared NCTCOG Transportation Department's photo.  
March 18

Ozone season has begun! Be Air Aware this season by taking the #BeAirAware pledge: <http://www.airnorthtexas.org/individual.asp> #AirNTX



NCTCOG Transportation Department  
March 1

Today is the start of Ozone Season! Stay tuned as Arlo teaches about improving air quality. #AirNTX #OzoneSeason #AirAware

**GET INVOLVED  
CLEAN AIR ACTION DAY  
JUNE 24**

Take at least one of these actions to help improve air quality:

- Choose an air-friendly commuting option like carpooling, walking or bicycling.
- Telecommute to avoid air pollution all together!
- Check your car tires to ensure they are at the optimal pressure.
- Walk or bike to a nearby destination instead of driving.
- Skip the drive-thru or other places that cause your vehicle to idle.

**Be Air Aware this Ozone season and sign up to receive daily email alerts at [AirNorthTexas.org](http://AirNorthTexas.org).**  
The City of Plano is a proud partner of Air North Texas, an air quality awareness campaign funded by the North Central Texas Council of Governments (NCTCOG).

**BE AIR AWARE**  
...all season long!

Sign up to receive ozone alerts at [airnorthtexas.org](http://airnorthtexas.org)

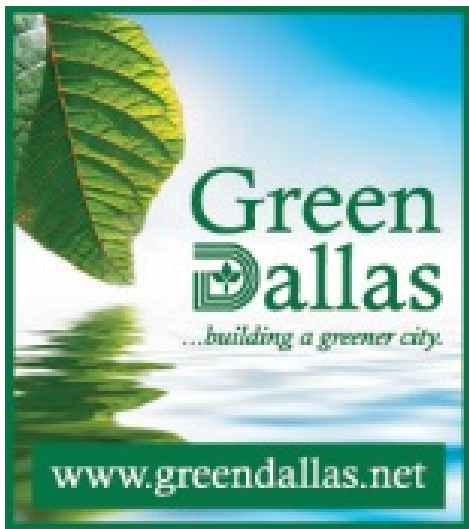
- All Vehicles
- Composting
- Energy





# Air North Texas 2015-2016 Partner Awards

## Arlo Ambassador



**Green Dallas**  
Published by Brandi Kelp [?] · May 27 · 🌐

Arlo had a very important meeting about Clean Air Action Day (CAAD), so he joined by conference call instead of driving. What action will you take for CAAD? Tell us at: <http://airnorthtexas.org/cleanair.asp>  
#CAAD2016 #AirNTX #GreenDallas

247 people reached

Like Comment Share

Sky Rachele Simmons, Kevin Lefebvre and 2 others

Write a comment...

**Green Dallas**  
Published by Brandi Kelp [?] · June 22 · 🌐

This Friday is Clean Air Action Day, and Arlo invites you to join Green Dallas and partners at the City Hall Plaza and Central Library. We will have lunch options, and great information from groups across Dallas on ozone and clean air. Come out and see us!  
#CAAD2016 #GreenDallas #AirNTX  
Click here for more details: [greendallas.net/event/clean-air-action-day-2016/](http://greendallas.net/event/clean-air-action-day-2016/)

Boost Post

ment Share

Sky Rachele Simmons and 8 others

ent...

**Green Dallas**  
Published by Brandi Kelp [?] · June 15 · 🌐

Arlo always turns off his power strip when he leaves work! What action will you take for Clean Air Action Day?  
#CAAD2016 #GreenDallas #AirNTX

932 people reached

Boost Post

Like Comment Share

Hilary Nguyen, Pamela Klekar Burns and 6 others

Write a comment...



# Air North Texas 2015-2016 Partner Awards

## Partner of the Year

Grand Prairie  
 — T E X A S —

**City of Grand Prairie - Municipal Government**  
 February 16 · 🌐

This Heart Month, do 1 thing for clean air. Did you know that air pollutants contribute to serious, even fatal damage to the cardiovascular system? When air is infused with harmful chemicals like sulfur dioxide, carbon monoxide and hydrocarbons, along with tiny particles of matter, our lungs are going to suffer. These pollutants come from lots of sources, some natural, like volcanic eruptions and plants' chemical reactions, and some not so natural. Emissions from vehicles and industrial plants, spraying aerosol cans, and exhaling cigarette all decrease the level of our air quality. So do 1 thing for your health and our air today. Learn more at [www.airnorthtexas.org](http://www.airnorthtexas.org) and [www.cdc.gov/air/air\\_health.htm](http://www.cdc.gov/air/air_health.htm).



**Air North Texas**  
 6.26.16, North Texans joined in doing at least one extra thing for clean air. Previously on July 7, Clean Air Action Day is the first Friday of summer every year. This year, participants incorporated clean air strategies when traveling to work...  
 AIRNORTHTEXAS.ORG

**City of Grand Prairie - Municipal Government**  
 August 31 at 9:30am · 🌐

The ozone is predicted to be at Level Orange in the Dallas-Fort Worth area today. Children, older adults and people with lung disease should limit outdoor activity. You can reduce ozone-forming emissions by using clean air strategies, such as carpooling, taking public transit, avoiding Express, and observing the speed limit.

**City of Grand Prairie - Municipal Government**  
 June 22 · 🌐



**AUGUST**  
 Reducing ozone-forming pollution and improving air quality is essential for protecting the health and welfare of North Texans today and for the quality of life for tomorrow. Take action for clean air on Friday, June 24.

**OZONE ACTION DAY**  
**LEVEL ORANGE**

**DFW Area Predicted to be at Level Orange**  
 The ozone is predicted to be at Level Orange in the Dallas-Fort Worth area today. Children, older adults and people with lung disease should limit outdoor activity. You can reduce ozone-forming emissions by using clean air strategies, such as carpooling, taking public transit, avoiding Express, and observing the speed limit.  
 AIRNORTHTEXAS.ORG



**Air North Texas**  
 It's up to each of us to take responsibility for the air we breathe. Clean Air Action Day 2016 will be on the first Friday of Summer, June 24.  
 AIRNORTHTEXAS.ORG



# Air North Texas 2015-2016 Partner Awards

## Contacts

**Whitney Vandiver**

**817-704-5639**

**[wwandiver@nctcog.org](mailto:wwandiver@nctcog.org)**

**Mindy Mize**

**817-608-2346**

**[mmize@nctcog.org](mailto:mmize@nctcog.org)**

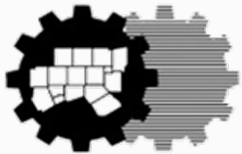
**[www.airnorthtexas.org](http://www.airnorthtexas.org)**



# Legislative Program

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Regional Transportation Council  
November 10, 2016



Amanda Wilson, AICP  
North Central Texas Council of Governments

# Draft RTC Legislative Program

## Continue Progress Made Toward Improving Transportation and Air Quality

- **Support full appropriation of Proposition 1 and 7 revenues**
- **Protect the ending of diversions**
- **Retain ability to utilize tools**
- **Continue to appropriate LIRAP/LIP**
- **Retain eminent domain authority for transportation purposes**
- **Support performance-based planning**

# Draft RTC Legislative Program

---

## Invest in Further Progress Toward Meeting Transportation and Air Quality Needs

- **635 East Project CDA**
- **Identify additional transportation revenue**
- **Appropriate LIRAP's balance of previously collected funds; modernize and increase flexibility in LIRAP/LIP**
- **Protect TERP revenue, ensure funds are utilized on projects that meet the intent of the program, including roadway/goods movement transportation projects**

# Draft RTC Legislative Program

---

## Provide Support for Other Topics to be Addressed in Legislation

- **Improve air quality**
- **Increase safety**
- **Plan/implement all modes of transportation**
- **Relieve congestion**
- **Maintain local and regional decision-making**
- **Utilize innovative technology**

# Draft RTC Legislative Program

---

## Provide Support for Other Topics to be Addressed in Legislation (Continued)

- **Support land use/transportation connections**
- **Maintain active operations and management of the system**
- **Enable transportation data sharing with privacy protection**
- **Plan for shared mobility solutions**



# Contact Information

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**Amanda Wilson, AICP**  
**Public Involvement Manager**  
**awilson@nctcog.org**  
**(817) 695-9284**

**Rebekah Hernandez**  
**Communications Coordinator**  
**rhernandez@nctcog.org**  
**(817) 704-2545**

[www.nctcog.org/trans/legislative](http://www.nctcog.org/trans/legislative)

# **REGIONAL 10-YEAR PLAN AND NEXT 10 YEARS OF PROJECTS**

Regional Transportation  
Council

November 10, 2016



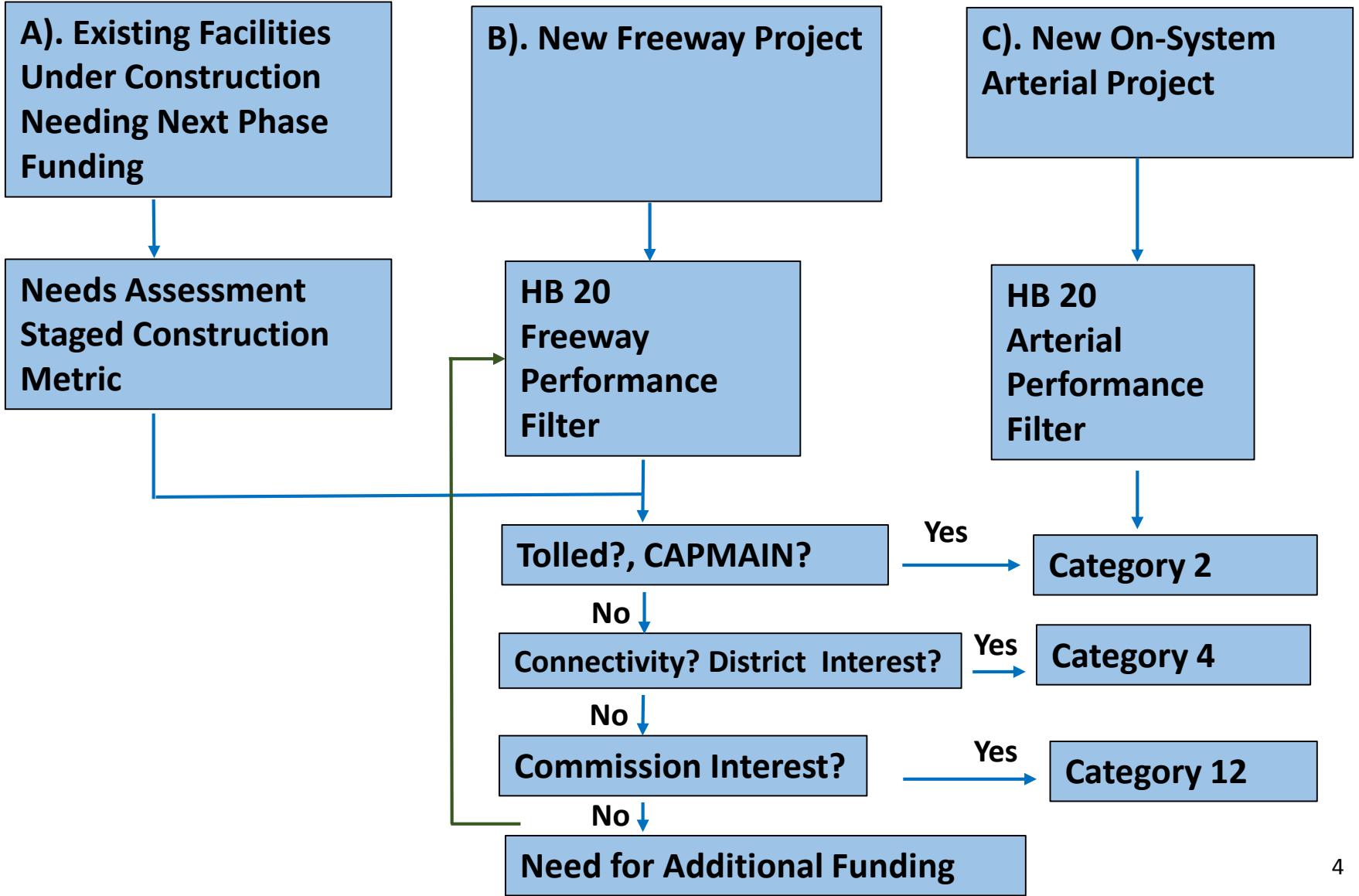
# POLICY SUMMARY

- Thank Texas Transportation Commission for formula funds.
- Thank Legislature and the public for new revenues.
- Assumes legislative minimums are met.
- Adds evidence that urban congestion is not fully addressed.
  - Opens up question on State allocations.
  - Need for innovative funding tools.
  - Need for additional revenues in next Legislative Session.

# REGIONAL FUNDING ALLOCATION FROM FY 2017 to FY 2026

- TIP funding categories for project selection
  - Category 2 – Urban Mobility Corridors (RTC)
  - Category 4 – Statewide Connectivity (TxDOT Districts)
  - Category 12 – Commission Strategic Priority (TTC)
- Projects being evaluated in “three paths”
  - A) Previously unfunded commitments or existing facilities under construction needing next phase funding
  - B) New freeway projects
  - C) New on-system arterial projects

# PROJECT PRIORITIZATION: PROCESS OF FILLING FUNDING BUCKETS



# EAST- WEST EQUITY SHARE (SAFETEA-LU and MAP-21)

- There have been no changes to the funding shares between the Eastern and Western Subregions since the last report in June 2016
- Staff proposes to move the East-West equity balance closer to the preferred distribution through this effort.

<b>East- West Equity Share (SAFETEA-LU and MAP-21)</b>	<b>Cumulative Total (\$ in Millions)</b>	
	<b>WEST</b>	<b>EAST</b>
SAFETEA-LU East-West Equity Total	\$649.76	\$1,558.48
MAP-21 East West Equity Total	\$320.98	\$847.62
Cumulative Total	\$970.74	\$2,406.10
Percentage Shares	28.75%	71.25%

# REGIONAL FUNDING ALLOCATION FROM FY 2017 to FY 2026<sup>1</sup>

**DRAFT**

with Equity Share Adjustments

**(MOVE \$100M)**

FUNDING CATEGORY	WEST (\$ IN BILLIONS)	EAST (\$ IN BILLIONS)	TOTAL (\$ IN BILLIONS)
CAT 2: Metropolitan Corridor <sup>2</sup>	\$1.10 <b>\$1.20</b>	\$2.32 <b>\$2.22</b>	\$3.42
CAT 4: Connectivity Corridor	\$0.49	\$1.04	\$1.53
CAT 12: Strategic Priority "Clear Lane"	\$0.65	\$1.38	\$2.03
<b>TOTAL</b>	<b>\$2.34</b>	<b>\$4.64</b>	<b>\$6.98</b>

- Categories 2, 4, and 12 funds are distributed 32 percent in the West and 68 percent in the East. Formulas are being updated.
- Propose to adjust Category 2 funds to balance the East/West equity

# ALLOCATIONS BY COUNTY

**DRAFT**

## West

County	Programming Target by Congestion Measure <sup>1</sup>
Hood	\$23,936,895
Johnson	\$112,247,476
Parker	\$62,338,475
Tarrant	\$2,102,365,092
Wise	\$34,116,863
<b>Total</b>	<b>\$2,335,004,800</b>

## East

County	Programming Target by Congestion Measure
Collin	\$986,036,416
Dallas	\$2,715,466,616
Denton	\$513,535,215
Ellis	\$126,931,497
Hunt	\$49,228,764
Kaufman	\$168,579,106
Rockwall	\$89,607,585
<b>Total</b>	<b>\$4,649,385,200</b>

**Total Allocation**

**\$6,984,390,000**

1: Based on 2040 Forecasted Total Congestion Delay



# PROJECT SELECTION SUMMARY

- The Commission picks Category 12 projects.
- Many projects are not funded (e.g., IH 635 E at IH 30)
- Denton County benefits from IH 35 E improvements in Dallas County.
- Collin County is \$400M more than Denton County.
- Category “A” Projects received priority (Under Construction)
- IH 35 E in Dallas County North of IH 635 to Denton County Line received \$295M (Will get \$200M from innovative finance arrangement from revenue inside the IH 635 interchange)
- Need IH 635 CDA from US 75 to Royal/Miller (Allocating \$50M only)
- Category 12 contingency for \$300M in the East.

# PROJECT SELECTION SUMMARY

- Dallas slightly under-funded for CMAQ/STP-MM; Propose a City of Dallas Bond Program partnership.
- Hunt County under review.
- Rockwall and Ellis Counties over due to ongoing construction projects.
- Projects balance East/West with \$100M credit to the West.
- Projects balance in Categories 2, 4, & 12.
- Projects approximate target totals.
- Estimated “Year of Construction” would still need to occur.
- These are new funds.

# NEXT STEPS

- Finalize draft project listing
- Balance project needs with available resources and YOЕ
- Submit to TxDOT headquarters to fulfill the HB 20 requirements

# TIMELINE

<b>Date</b>	<b>Action</b>
June 2016	TTC announced new Category 2 Funds
July 2016	Introduced 10-year plan process to STTC for information
August 2016	Introduced 10-year plan process to RTC for information
September 2016	NCTCOG Public Meetings: 10-Year Plan Process (September 12, 14, & 20)
October 2016	STTC for information item RTC for information item NCTCOG/TXDOT consensus on preliminary project list
November 2016	RTC first reading NCTCOG Public Meetings: Project List (November 7, 9, and 15)
December 2016	STTC action RTC final action
December 15th 2016	TTC briefing

# CONTACT/QUESTIONS?

## **MTP Coordination:**

Dan Lamers, P.E.  
Senior Program Manager  
Ph: (817) 695-9263  
[dlamers@nctcog.org](mailto:dlamers@nctcog.org)

Elizabeth Whitaker, AICP  
Principal Transportation Planner  
Ph: (817) 608-2324  
[ewhitaker@nctcog.org](mailto:ewhitaker@nctcog.org)

## **Project Funding:**

Christie J. Gotti  
Senior Program Manager  
Ph: (817) 608-2338  
[cgotti@nctcog.org](mailto:cgotti@nctcog.org)

Adam Beckom, AICP  
Principal Transportation Planner  
Ph: (817) 608-2344  
[abeckom@nctcog.org](mailto:abeckom@nctcog.org)

# **Waze Connected Citizens Program & 511DFW Data Sharing Portal**

**Regional Transportation Council  
November 10, 2016**



**Thomas Bamonte  
North Central Texas Council of Governments**

# Overview

**Transportation Data Today**

**Waze Connected Citizens Program**

**Next Steps**

# Transportation Data Sources

## Traffic Management Centers





# Transportation Data Sources

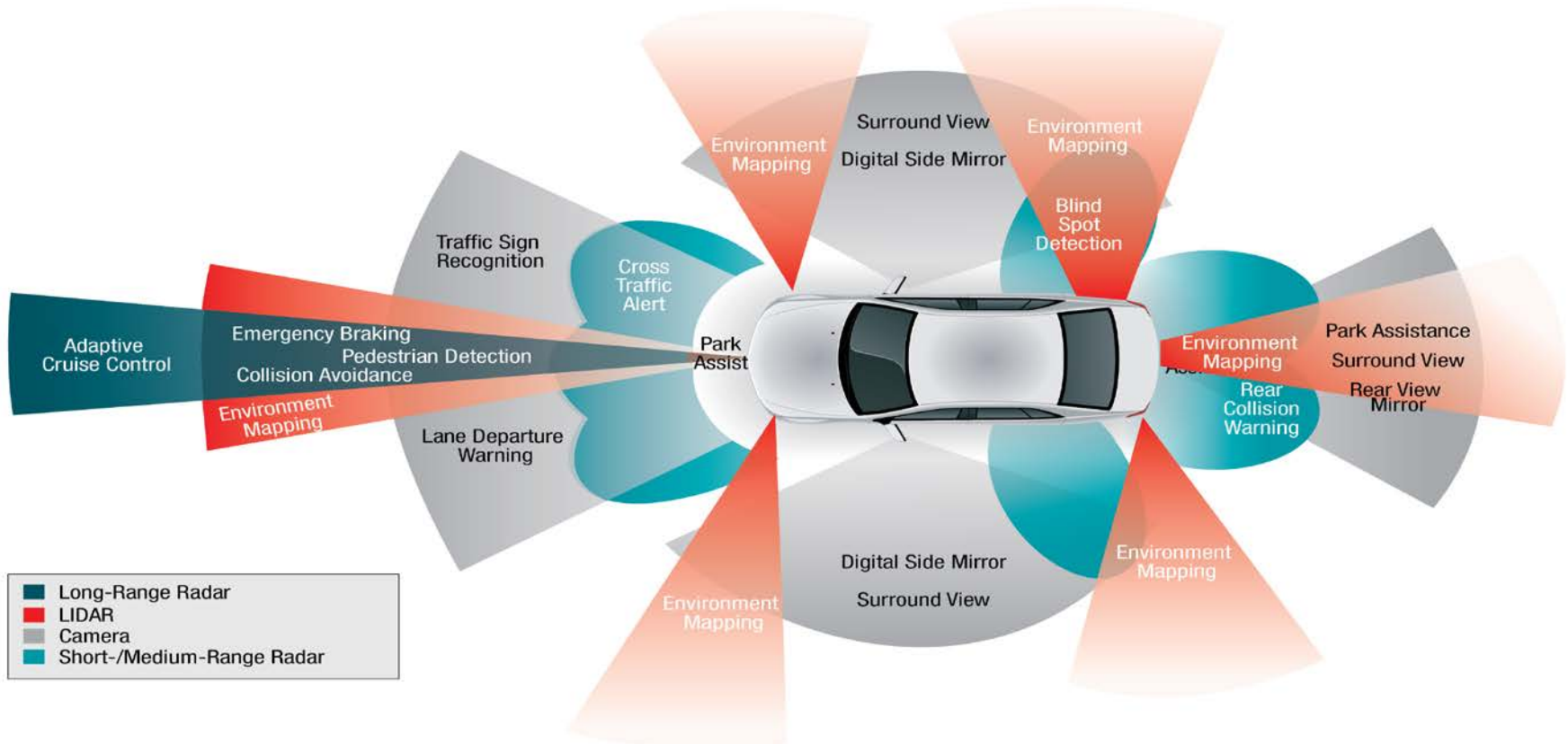
## Travel Navigation Services

Google maps



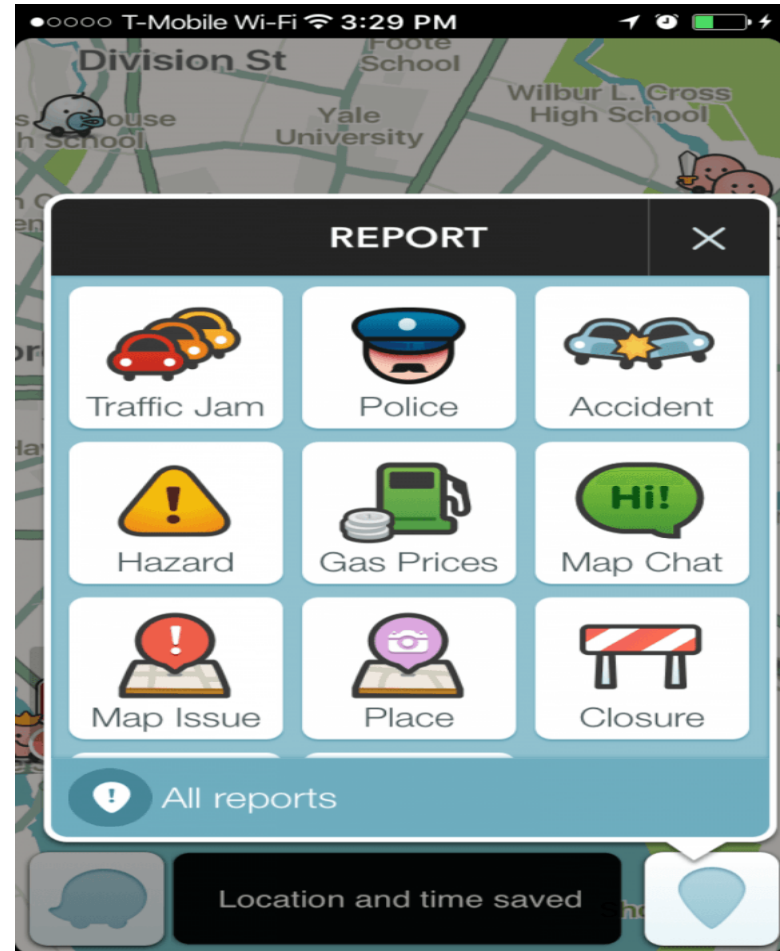
# Transportation Data Sources

## Vehicles



# Transportation Data Sources

## Motorists

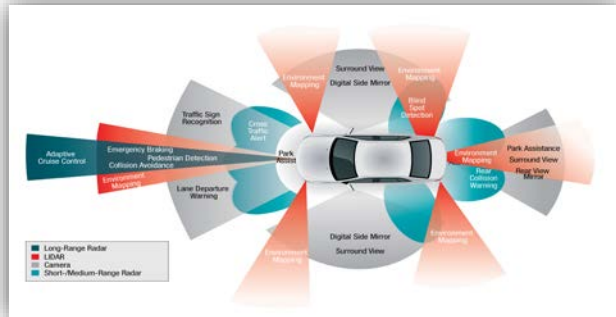
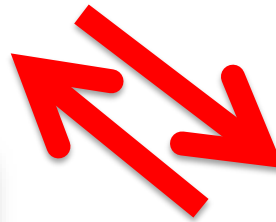


# Transportation Data Flows

Traffic Management Centers



Travelers



Vehicles



Travel Navigation Services

# Connected Citizens Program (CCP)

**Hosted by Waze**

**Established two years ago**

**100+ City, DOT, MPO,  
private-sector participants**

**International scope**

**No cost to participate**



# CCP: Region Shares Information

**Planned road closures**

**Special events**

**Unusual incidents that have major impacts**

- Severe crashes with lane closures
- Weather-related closures
- Public emergencies



# CCP: Waze Shares Information

## Roadway incidents

- Crashes
- Stopped vehicles
- Objects on road

## Traffic congestion

- Reported
- Derived



# Waze Map Editing Tools

Waze Major Traffic Events

https://www.waze.com/events/lions-vs-rams-2016-10-16

Thomas

waze LIVE MAP MAJOR EVENTS SUPPORT BLOG ABOUT Login

< Back

## Lions vs. Rams

Detroit, Michigan, United States, Oct 16, 2016

Beacon St	06:00-10:00
Beaubien St	06:00-10:00
Brush St	06:00-10:00
E Adams St	06:00-10:00
Saint Antoine St	10:00-12:00
Beacon St	10:01-12:00
Beaubien St	10:01-12:00
Brush St	10:01-12:00
E Adams St	10:01-12:00
Beacon St	12:01-17:30
Beaubien St	12:01-17:30
Brush St	12:01-17:30

Tell Waze about upcoming events

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# 511DFW: Region's Data Share Portal

The screenshot displays the 511DFW website interface. At the top left is the 511DFW logo. To the right, the current weather is shown as 89° Partly Cloudy, with links for ABOUT, CONTACT, FAQ, and FEEDBACK, and a Like 38 button. Below this, a navigation bar contains buttons for Select Your Region, Transit Trip Planner, My511, Traffic and Transit Conditions, and Travel Links. A message states: "ALERTS: There are no service alerts at this time." The main map area features a toolbar with options like Save Map, Display Map, Clear Map, Show on Map (Active), Set Map on Refresh Rate (5 minutes), and Go To (Dallas). A row of 14 icons represents different data layers: Traffic Incidents, Traffic Construction, Transit Incidents, Transit Construction, Special Events, Traffic Speeds, HOV Speeds, Weather Alerts, Weather Forecast, Radar Overlay, Rail, Bus Stops, Message Signs, Traffic Cameras, and Parking Info. The map itself shows the Dallas metropolitan area with various highways and city names. At the bottom right, there are map controls (person icon, zoom in/out) and a footer with "Map data ©2016 Google", "Terms of Use", and "Report a map error".

# Next Steps

**Enter into Connected Citizens Program agreement with Waze**

**Issue Request to Partners to encourage other data sharing possibilities using 511DFW data portal**

**Work with regional partners to optimize transportation data sharing via 511DFW to improve the efficiency and safety of region's highway system**

# Contact Information

Thomas J. Bamonte, Program Manager

[tbamonte@nctcog.org](mailto:tbamonte@nctcog.org)

817-704-5604

Twitter: [@TomBamonte](https://twitter.com/TomBamonte)



# END OF 2016 OZONE SEASON

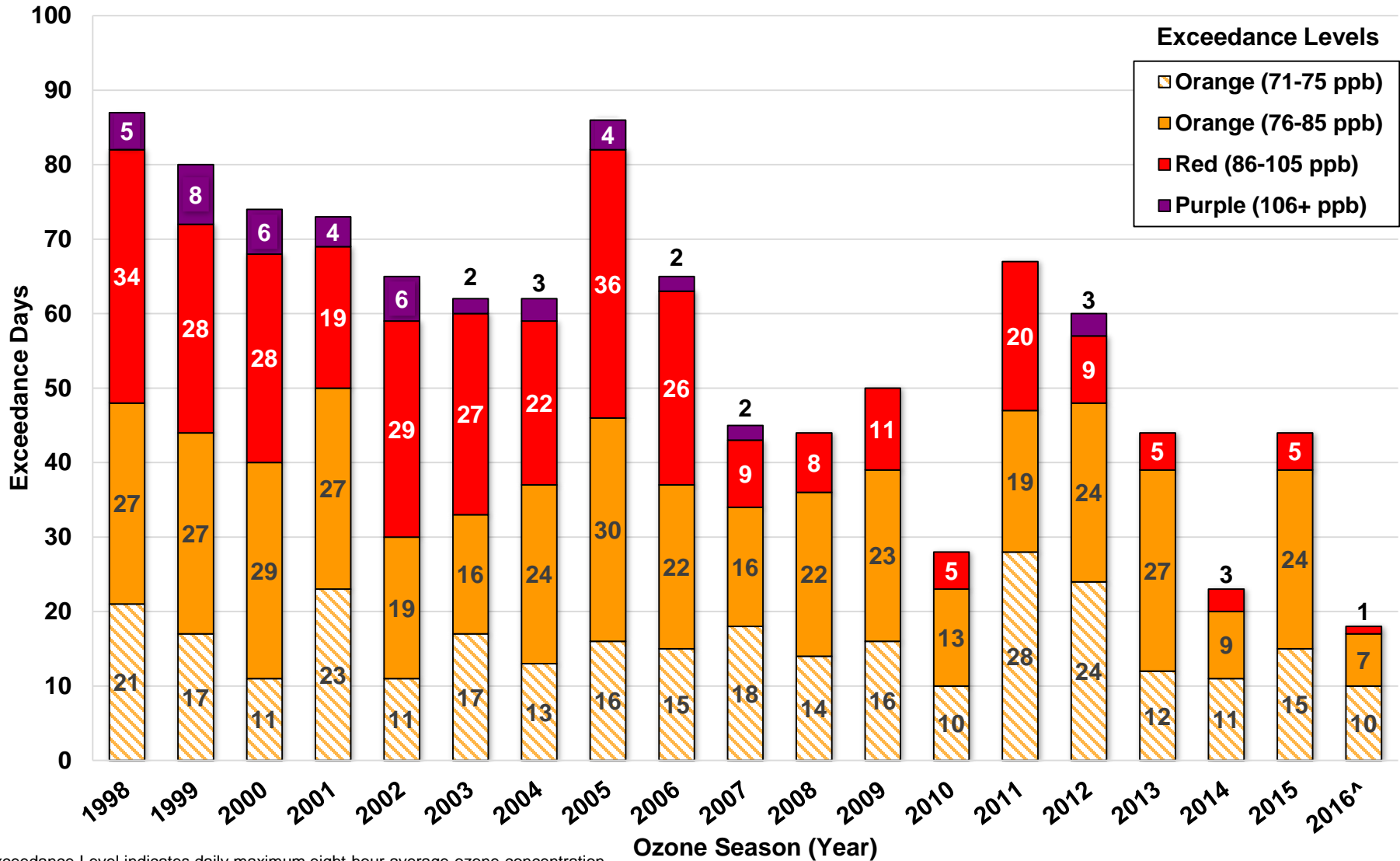
**Regional Transportation Council**

**Chris Klaus, Senior Program Manager**  
**November 10, 2016**



# END OF OZONE SEASON

## Eight-Hour Ozone Exceedance Days Based on 70 ppb Standard



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

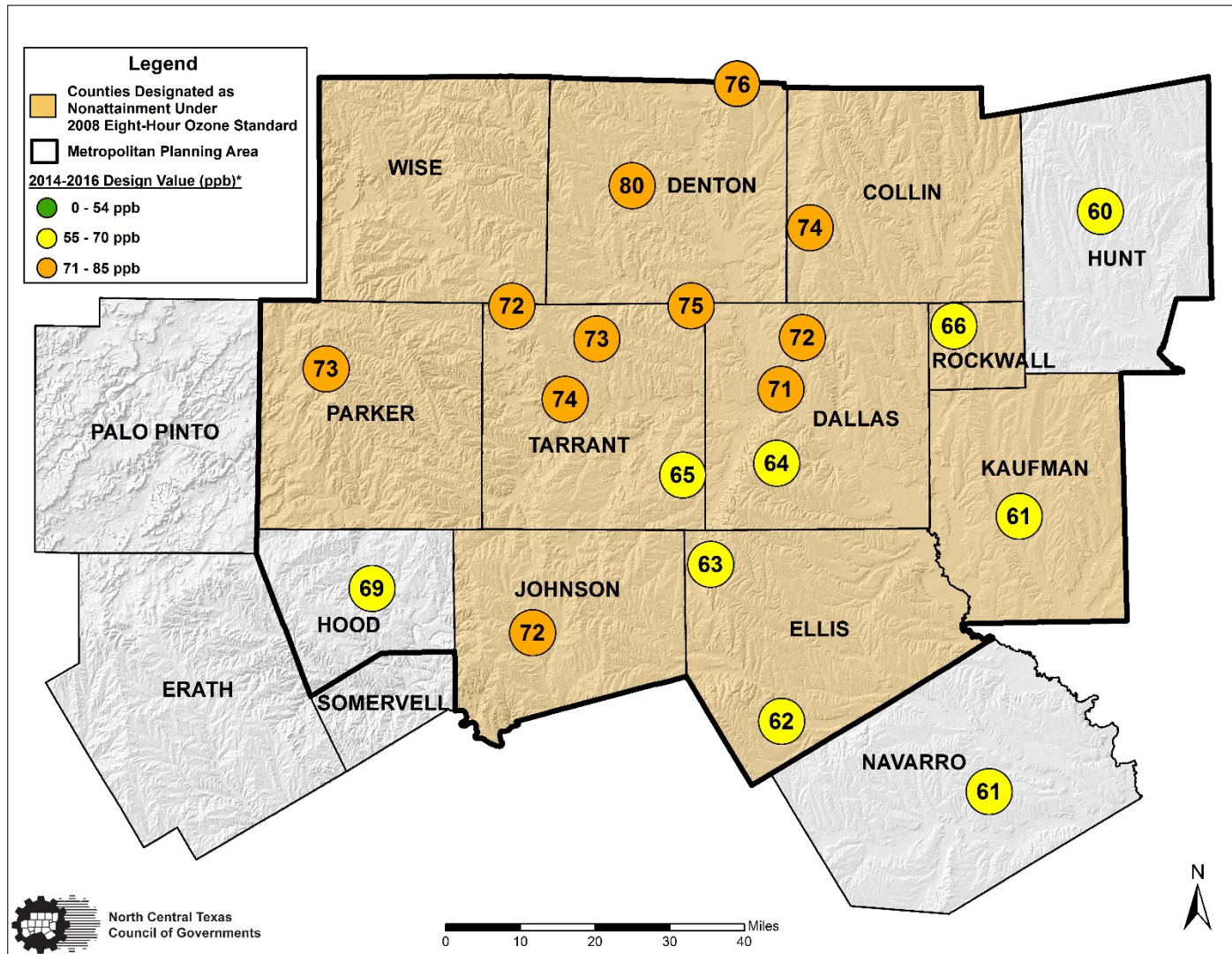
= Additional level orange exceedance days under the revised 70 ppb standard. (AQI level orange = 71-75 ppb)

<sup>^</sup>2016 data not certified by the TCEQ.

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

# END OF OZONE SEASON

## Eight-Hour Ozone Design Values Based on 70 ppb Standard

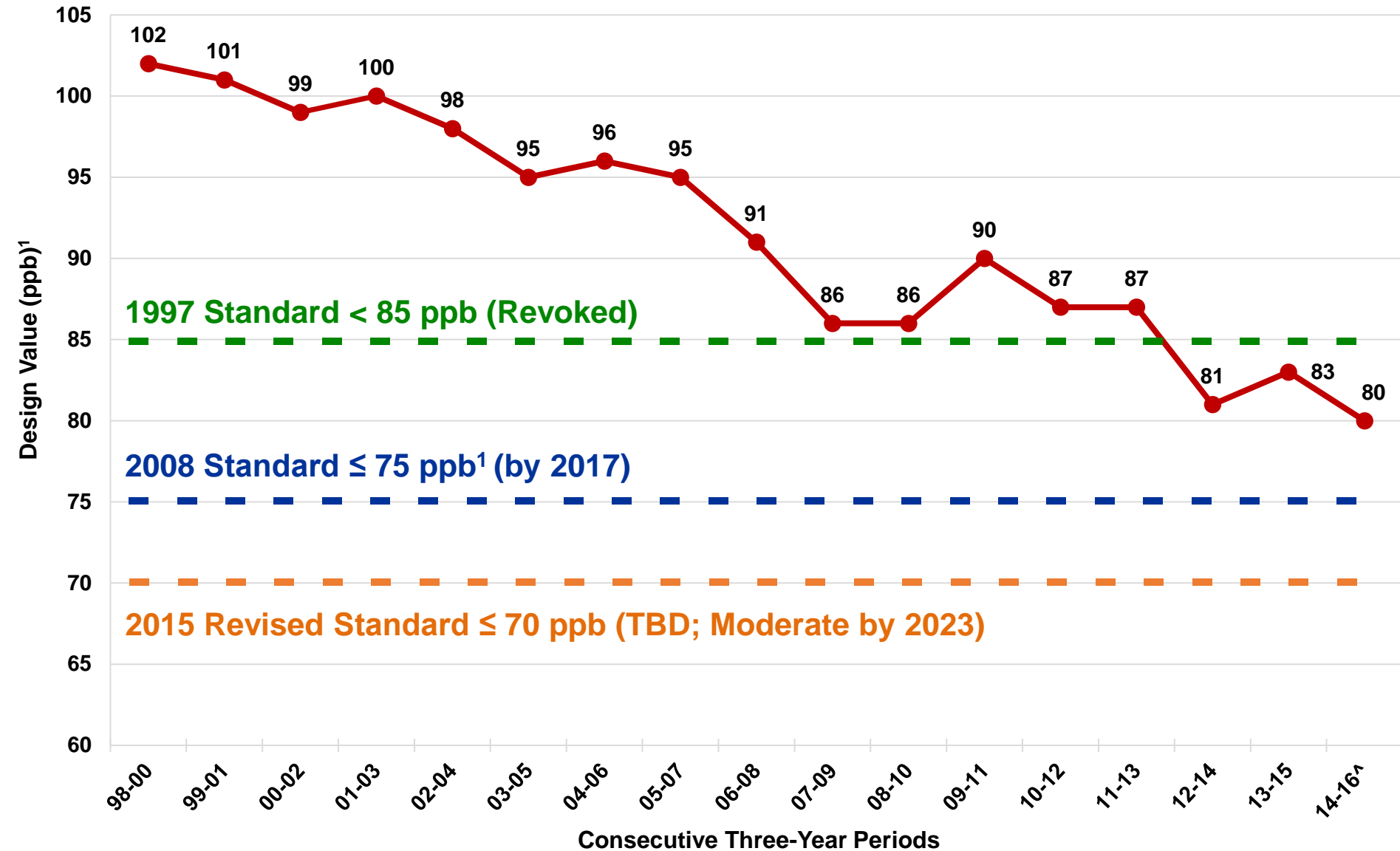


\*2016 data not certified by the TCEQ.  
Colors represent Air Quality Index breakpoints

According to the US EPA National Ambient Air Quality Standards, attainment is reached when, at each monitor, the three-year average of the annual fourth-highest daily maximum 8-hour average ozone concentration is less than or equal to 75 parts per billion (ppb)

# END OF OZONE SEASON

## Eight-Hour Ozone Historical Trends

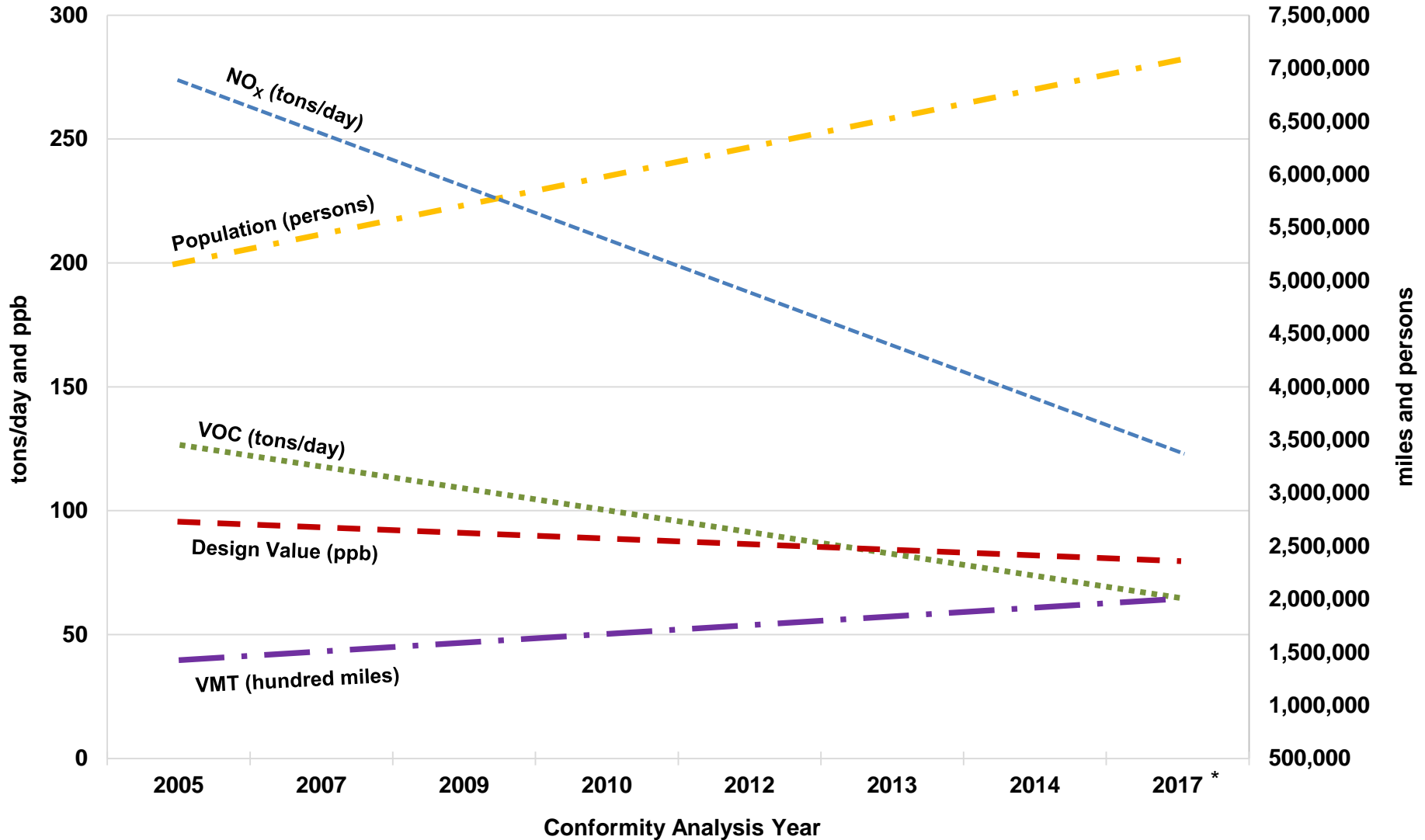


<sup>1</sup>Attainment Goal - According to the US EPA National Ambient Air Quality Standards, attainment is reached when, at each monitor, the *Design Value* (three-year average of the annual fourth-highest daily maximum eight-hour average ozone concentration) is less than or equal to 70 parts per billion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

<sup>Δ</sup>2016 data not certified by the TCEQ.

# END OF OZONE SEASON

## Historical Design Value and Transportation Trends



Design Value (DV) - three-year average of the annual fourth-highest daily maximum eight-hour average ozone concentration is less than or equal to 70 parts per billion (ppb).

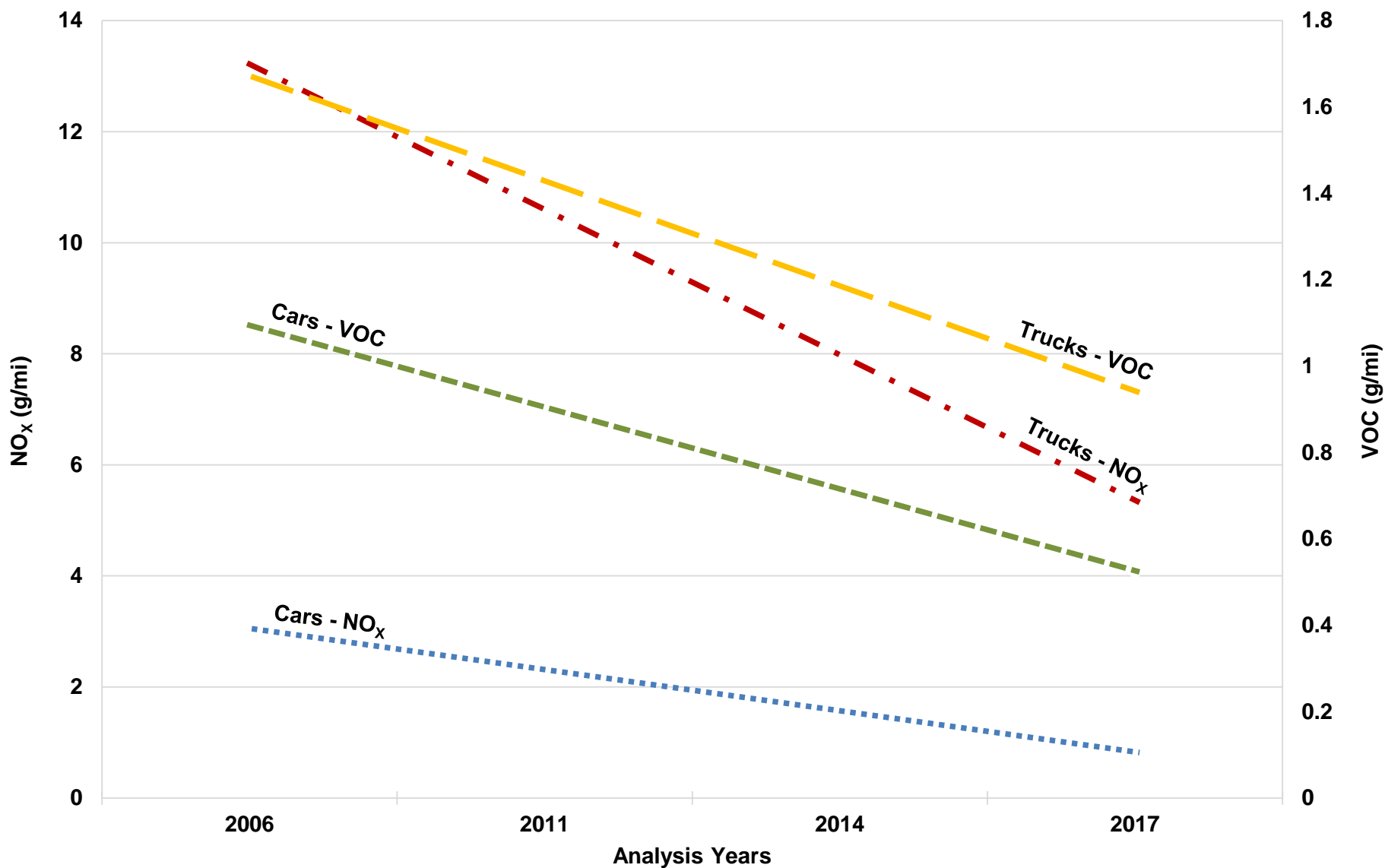
\*2017 DV based on 2016 data. Not certified by the TCEQ.

Source: NCTCOG TR Dept

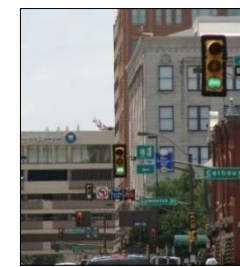


# END OF OZONE SEASON

## Historical Emission Factors – Cars and Trucks

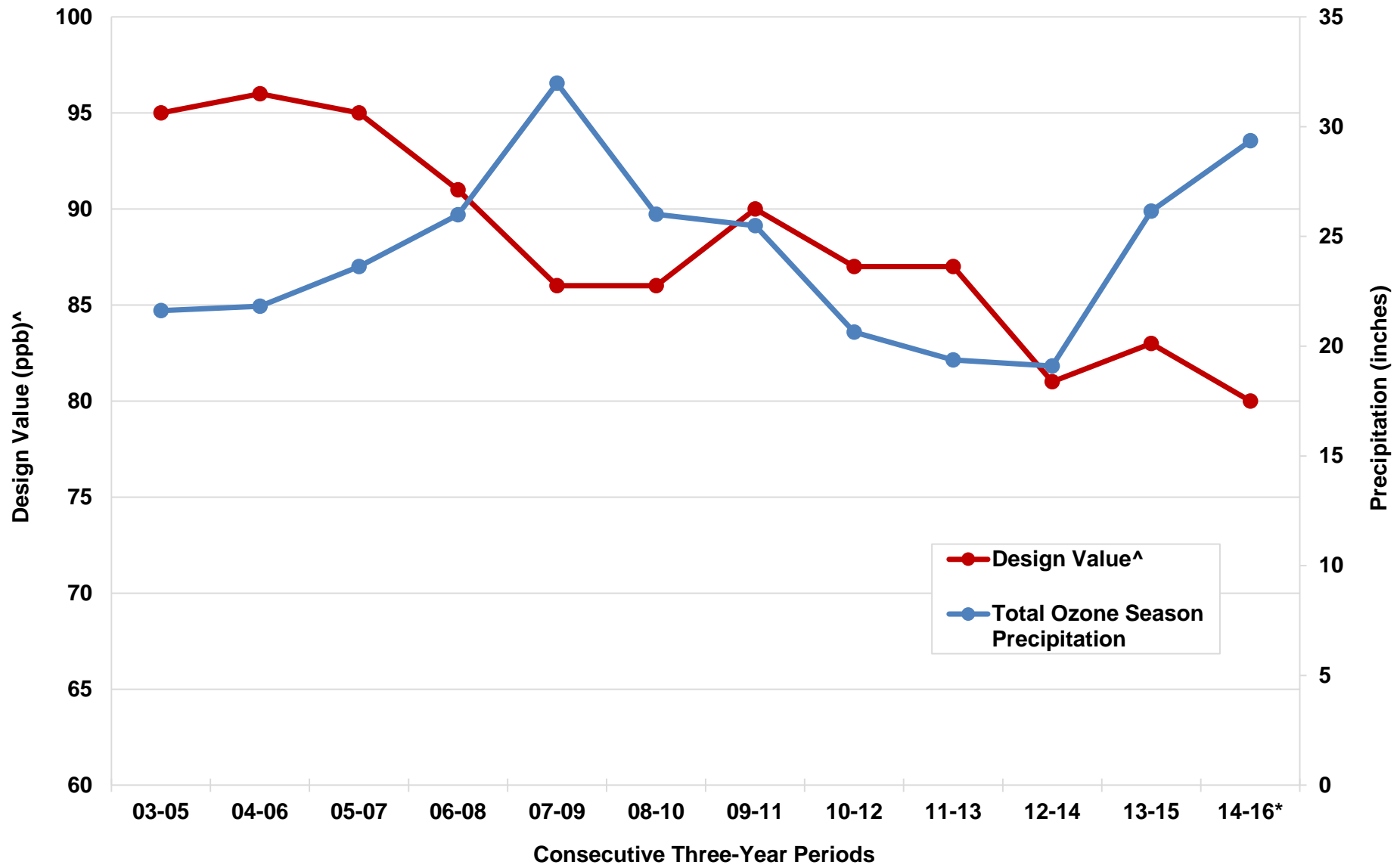


# AIR QUALITY INITIATIVES



# END OF OZONE SEASON

## Historical Design Value and Precipitation

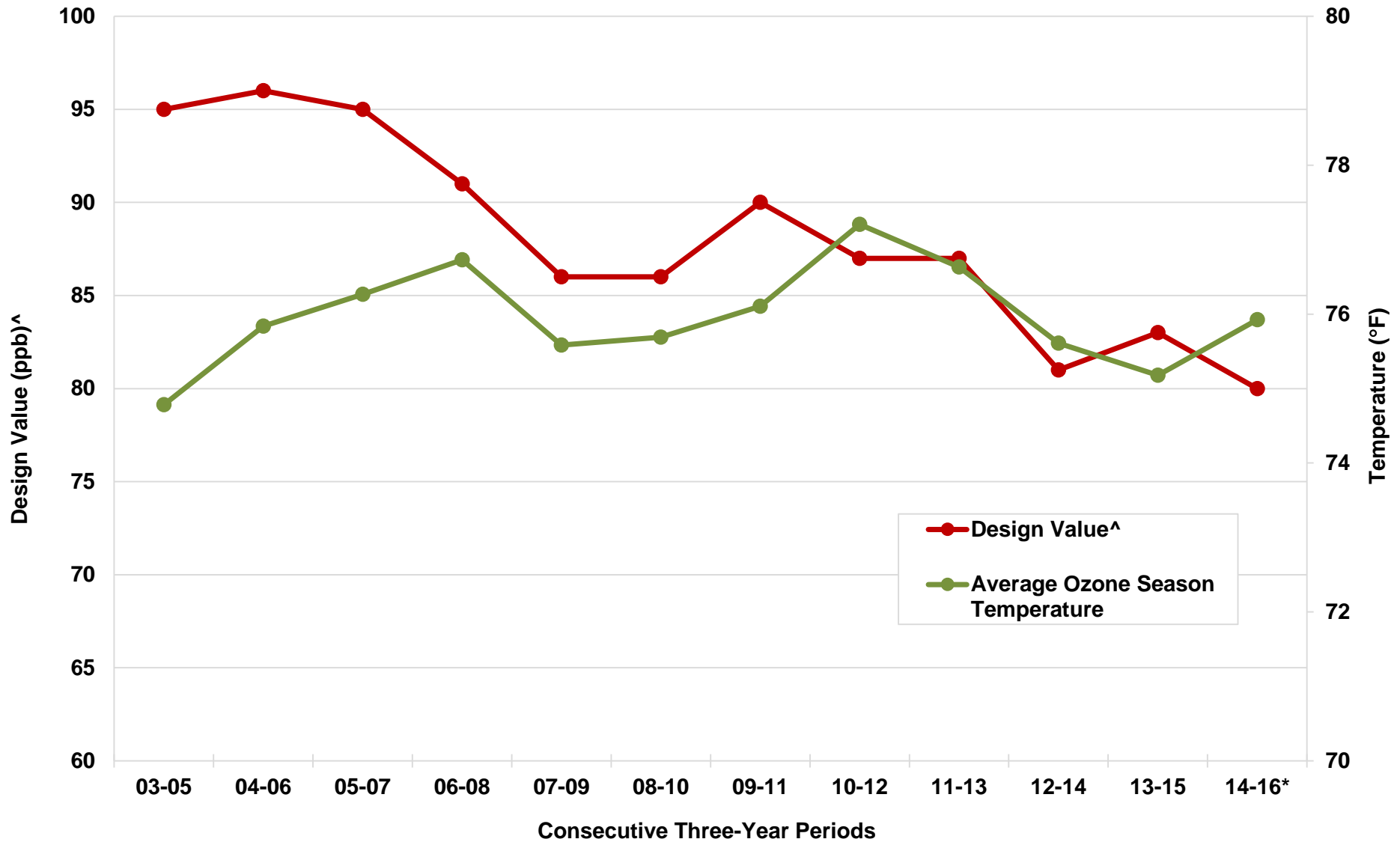


^ Design Value (three-year average of the annual fourth-highest daily maximum eight-hour average ozone concentration) is less than or equal to 70 parts per billion (ppb).

\*2016 design value data not certified by the TCEQ.

# END OF OZONE SEASON

## Historical Design Value and Temperature



^ Design Value (three-year average of the annual fourth-highest daily maximum eight-hour average ozone concentration) is less than or equal to 70 parts per billion (ppb).

\*2016 data not certified by the TCEQ.

# OZONE SEASON

## Future Considerations

### Impacts of Meteorological Data

Precipitation ✓

Temperature ✓

Humidity

Wind Speed and Direction

### Background Levels

### Daily and Site Specific Comparisons

### Potential to Develop Dynamic, Targeted Control Strategies

# REFERENCES

**Jenny Narvaez**  
**Principal Air Quality Planner**  
**[jnarvaez@nctcog.org](mailto:jnarvaez@nctcog.org)**  
**817-608-2342**

**Jody Loza**  
**Senior Air Quality Planner**  
**[jloza@nctcog.org](mailto:jloza@nctcog.org)**  
**817-704-5609**

**Air Quality Policy and Regulations: [www.nctcog.org/trans/air/policy/](http://www.nctcog.org/trans/air/policy/)**  
**NCTCOG Ozone Updates: [www.nctcog.org/ozone](http://www.nctcog.org/ozone)**

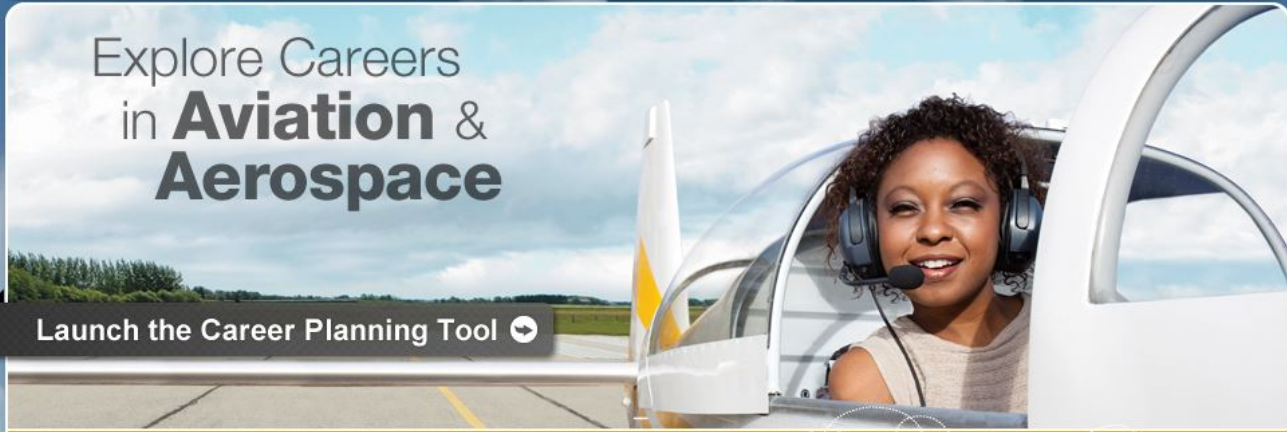
# NCTaviationcareers.com

Explore Careers  
in **Aviation &  
Aerospace**

**Update on Gamification**



## Regional Transportation Council



# Explore Careers in **Aviation & Aerospace**

Launch the Career Planning Tool

## Careers

What career opportunities exist in aviation and aerospace?



## Programs

Where can I get education for aviation and aerospace careers?

## Grants & Scholarships

How do I pay for my education?

### What's New

◀ 1 of 9 ▶



#### [FLYBY - Aviation Game App - Test your skills](#)

NCTCOG's FLYBY Aviation App - Test your piloting skills and aviation knowledge.

### Spread Your Wings

### Cool Stuff

- [AV8RS Program](#)
- [Barrington Irving - The Flying Classroom](#)
- [Civil Air Patrol \(CAP\)](#)
- [FAA's Student Resources](#)
- [How do things fly?](#)
- [NASA Space Place](#)
- [National Space Society of North Texas](#)
- [NBAA for Students](#)
- [Regional Aviation Museums](#)
- [Texas Aerospace Scholars](#)



# Gamification App



# Gamification Development

Generate middle and high school student interest in Aerospace and Aviation Careers

University of Texas at Arlington, Art + Art History Department, Joshua Wilson

Free Downloadable app on Apple and GooglePlay

Online Stat Board

# App Aircraft

- Lockheed Martin's F35 and C130J
- Bell Helicopter's V280
- Airbus Helicopter's H155 and EC225
- An aircraft character was developed by high school students to allow them to learn game development and design by creating mobile games (SEED Program with UTA)

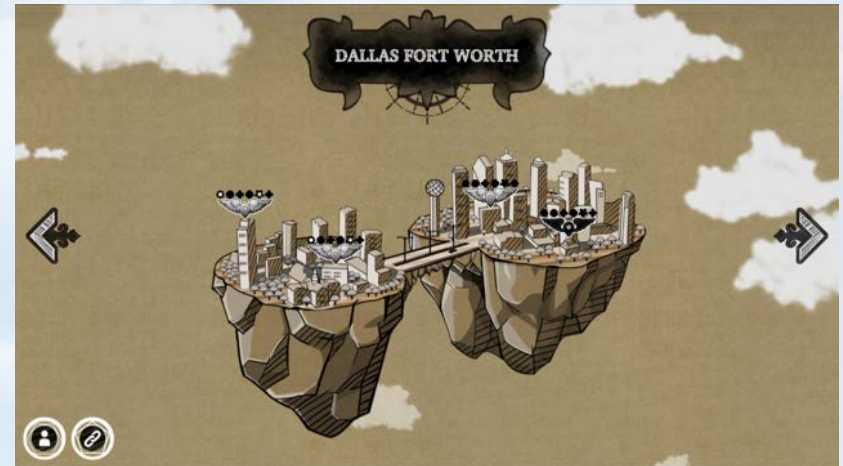


# App Settings



Alliance Airport

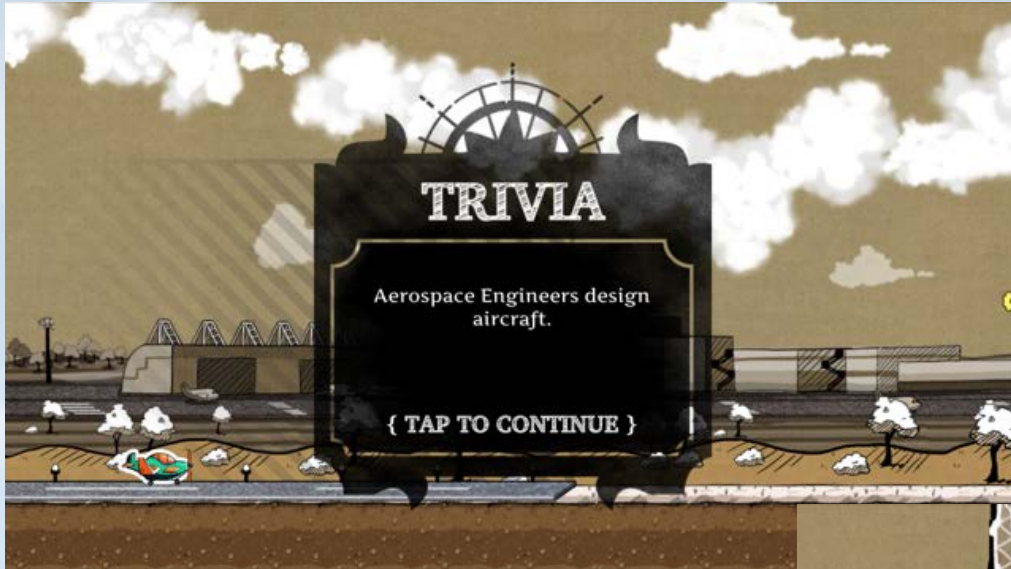
Dallas-Fort Worth



Corpus Christi

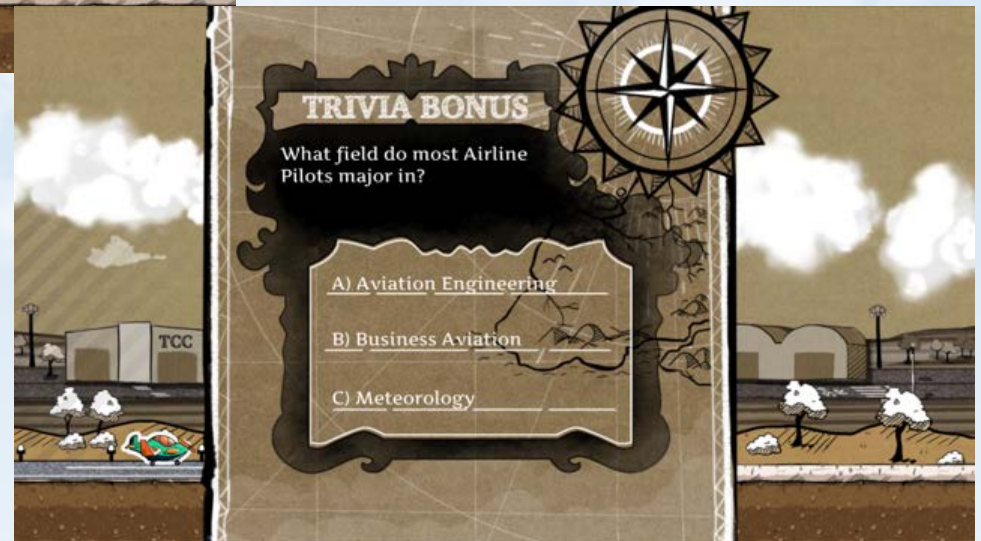


# App Trivia and Trivia Bonus



Beginning of Level

End of Level



# Gamification Development

Career and Technology students participated in beta testing at Arlington, Birdville, Fort Worth and Northwest Independent School Districts



# Current Sponsors



# Explore Careers in **Aviation & Aerospace**

Launch the Career Planning Tool

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What career opportunities exist in aviation and aerospace?

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- [National Space Society of North Texas](#)
- [NBAA for Students](#)
- [Regional Aviation Museums](#)
- [Texas Aerospace Scholars](#)



Home >

+ Add To My Flight Bag

View published New draft Moderate

### FLYBY Score Board



Take flight and put your piloting skills to the test in FLYBY. Soar over Texas' iconic locations while dodging hostile aircraft on your journey to the finish line. Earn medals for your bravery and collect parts to build new aircraft. Compete with friends to get the highest online score for each level.

### FLYBY Score Board

Below are the top ten highest scores for the FLYBY App.  
Test your skills and try to beat the scores below.

Level 1	
Initials	Score
JJW	1670
JJW	1670

# Questions?

**Natalie Bettger**

NCTCOG

[nbettger@nctcog.org](mailto:nbettger@nctcog.org)

817-695-9280

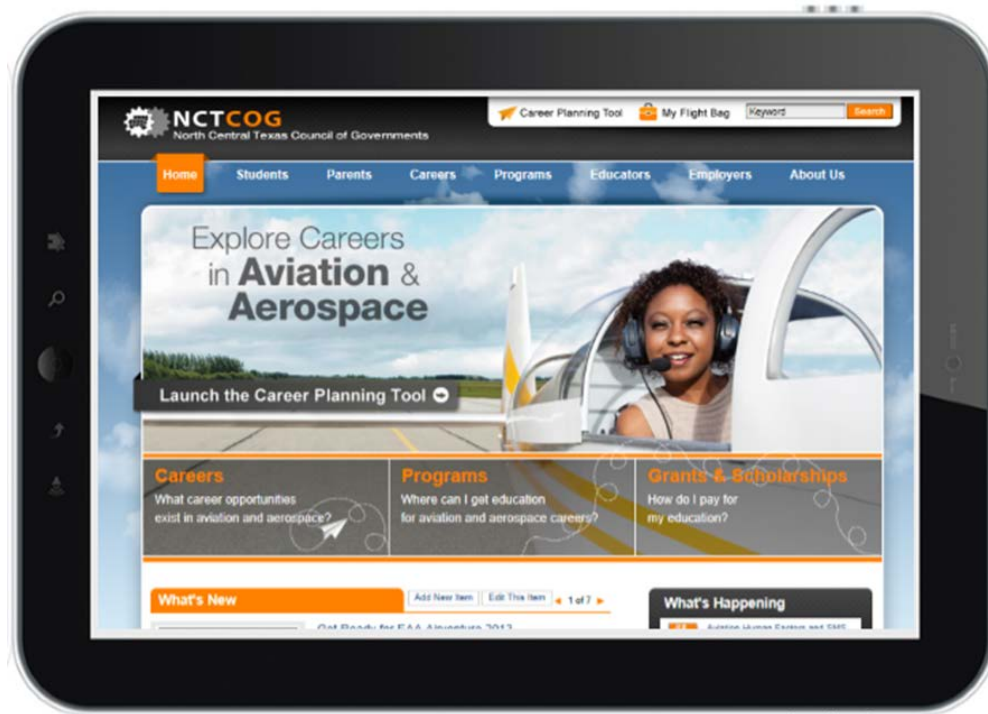
**Lisa Key**

NCTCOG

[lkey@nctcog.org](mailto:lkey@nctcog.org)

817-608-2316

**NCT**aviationcareers.com



For more information see  
**NCT**aviationcareers.com