

Air Quality Update

Air North Texas Coalition

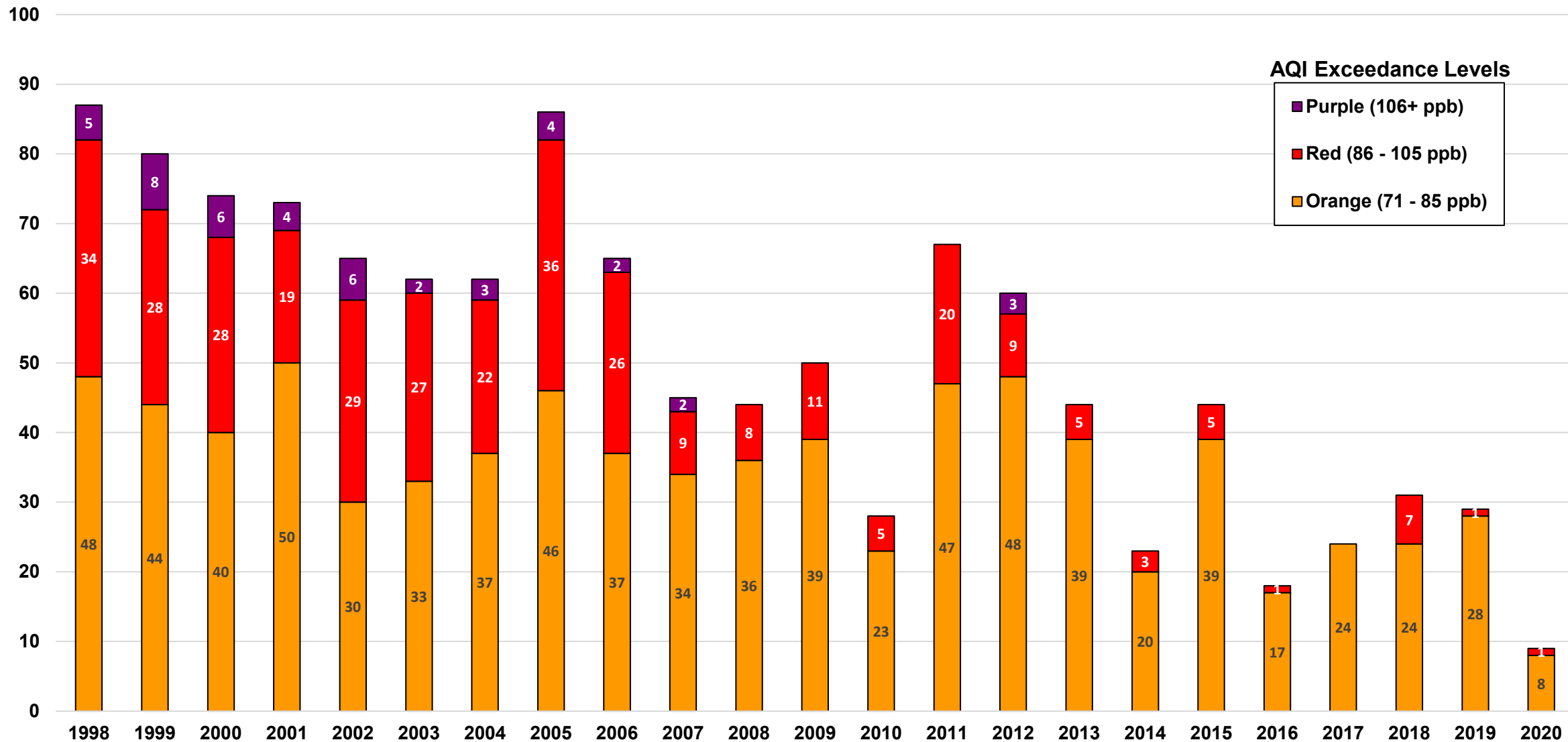
**July 16, 2020
Nick Van Haasen**



**North Central Texas
Council of Governments**

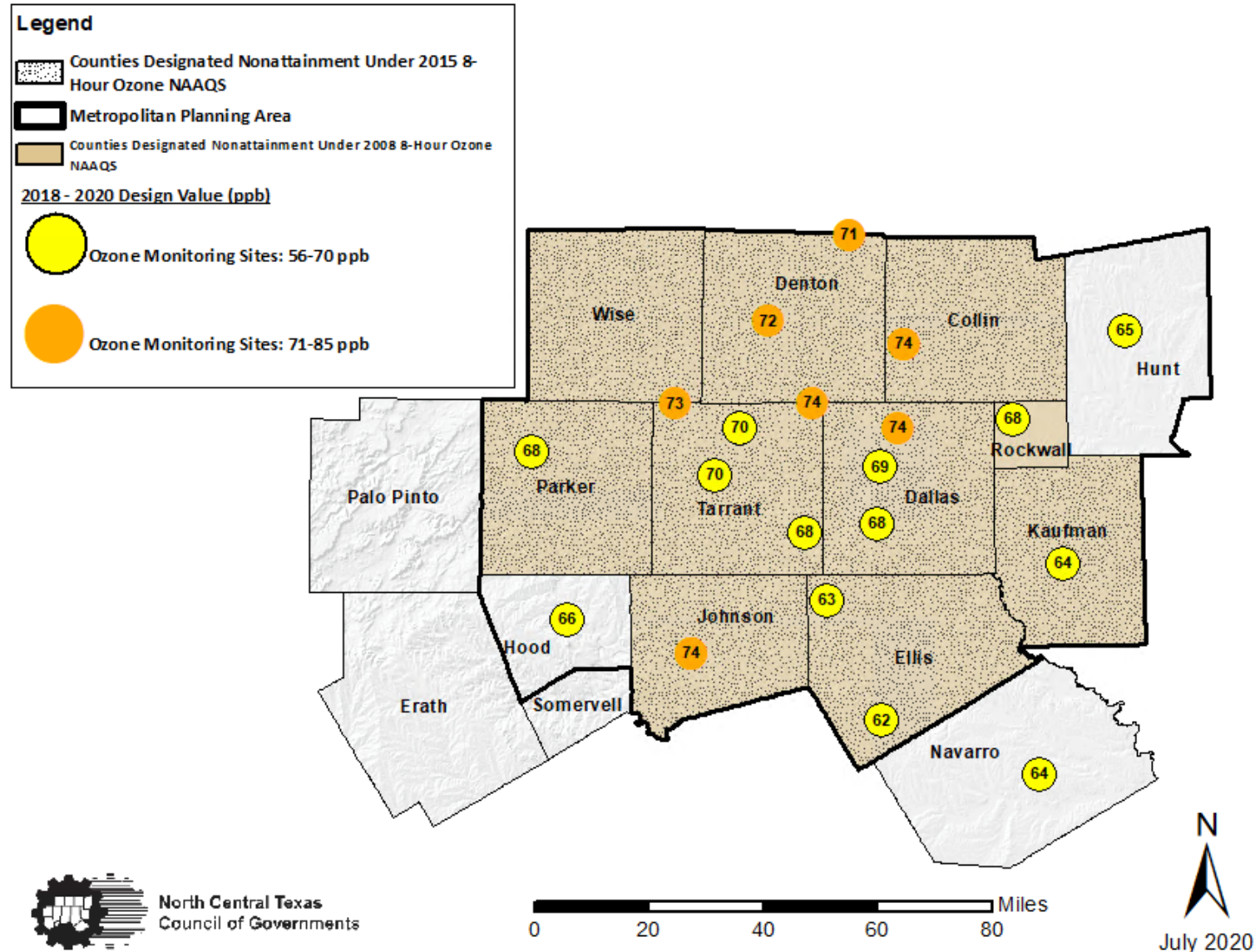
8-HOUR OZONE NAAQS HISTORICAL TRENDS

Based on ≤ 70 ppb (As of July 16, 2020)

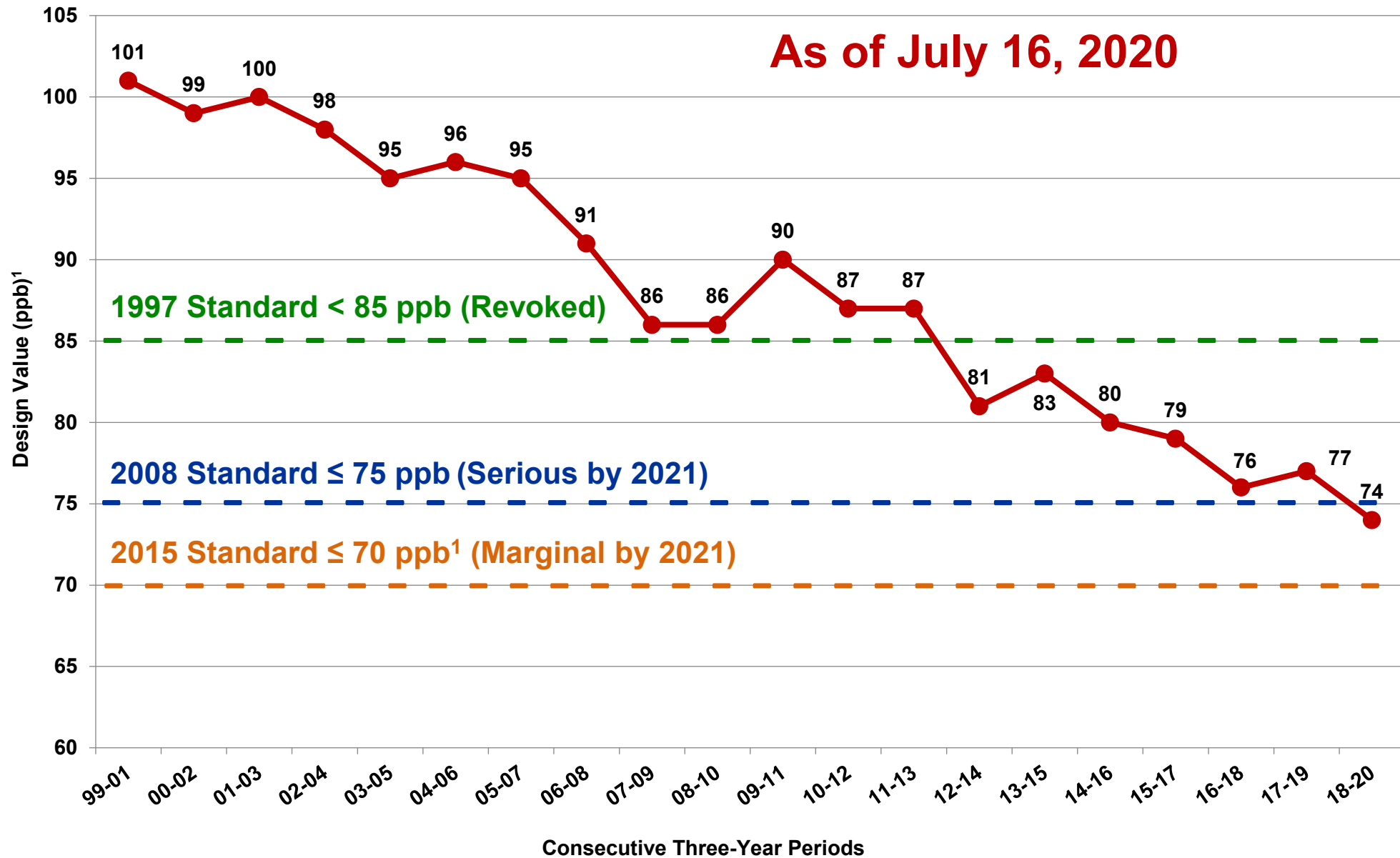


Monitor Locations

2020 Design Value Monitor Readings



8-HOUR OZONE NAAQS HISTORICAL TRENDS



¹Attainment 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).

For More Information

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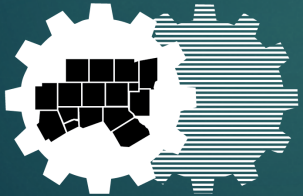
Nick Van Haasen
Air Quality Planner
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<https://www.nctcog.org/trans/quality/air/ozone>

EFFECTS OF COVID-19 ON TRANSPORTATION and AIR QUALITY

Air North Texas Coalition

July 16, 2020



North Central Texas
Council of Governments

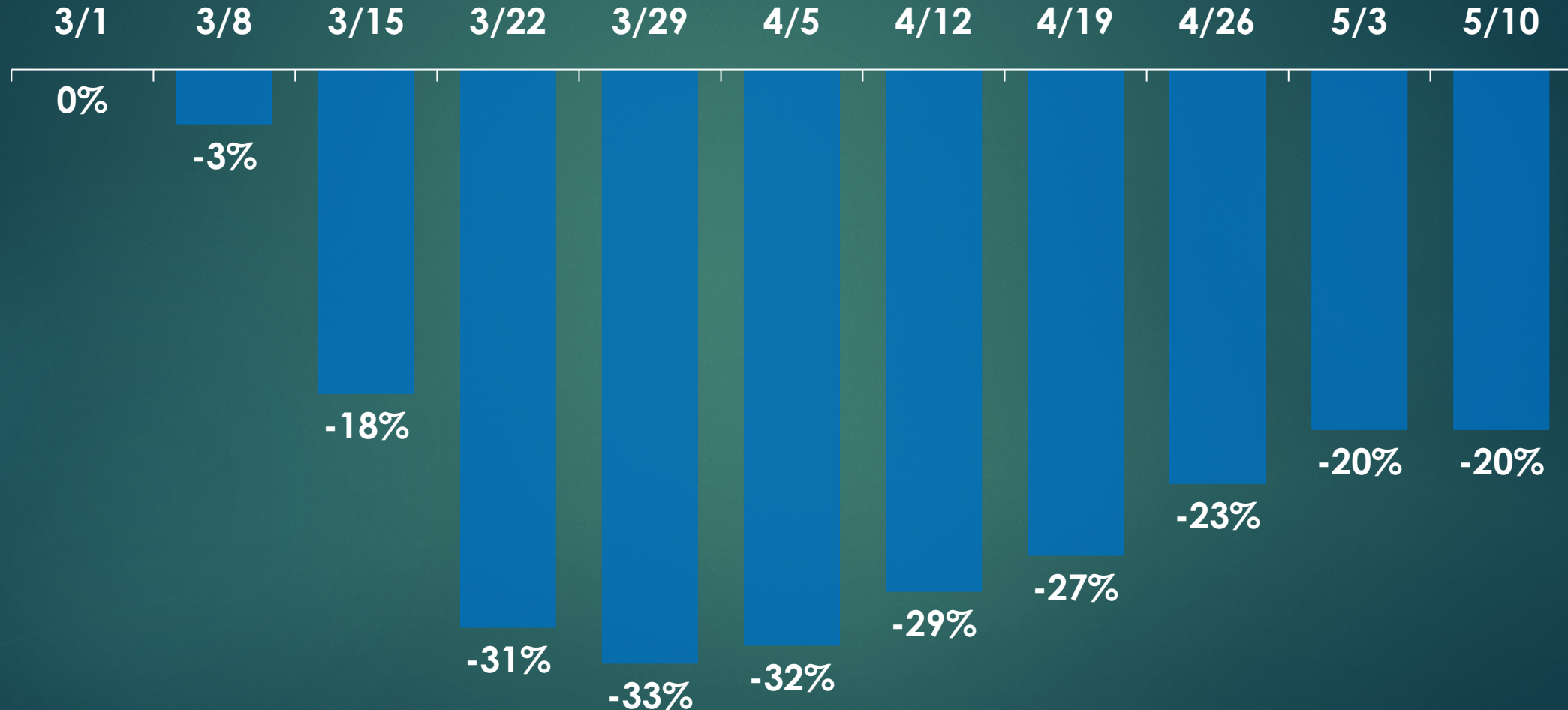
Nick Van Haasen, NCTCOG

1. TRANSPORTATION

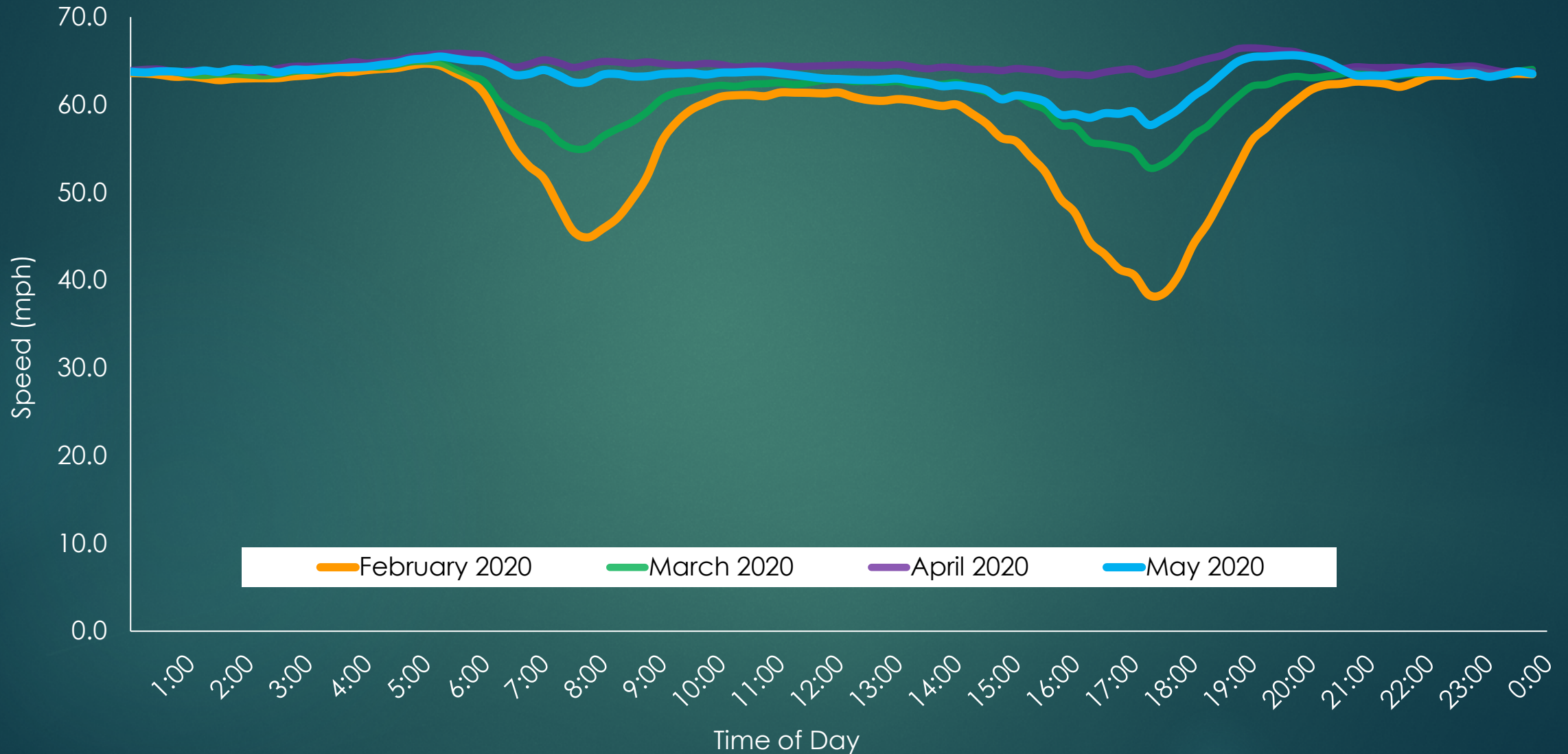
(ROADWAY)

Freeway Volumes During COVID-19

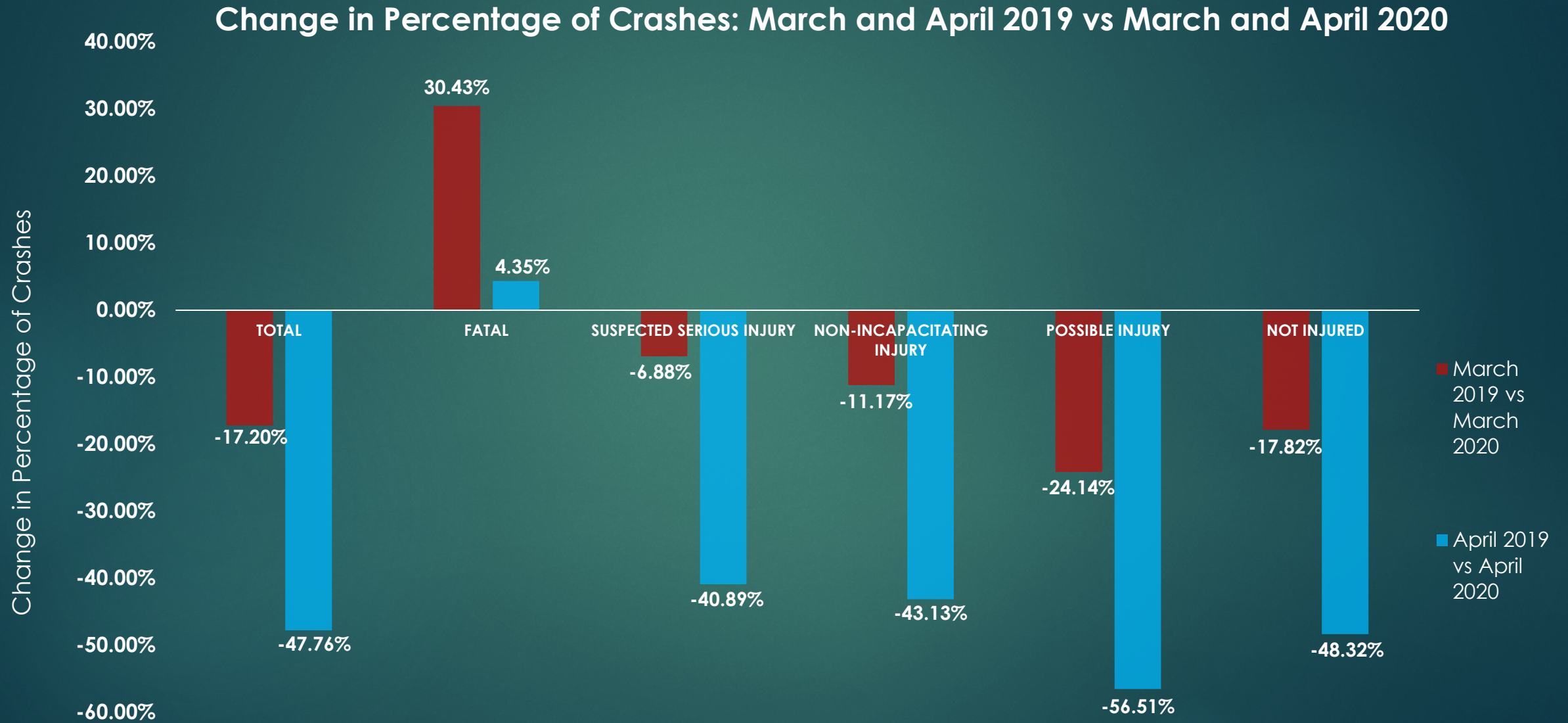
Decrease in Weekday Traffic with Respect to March 1, 2020



Average Speed on Freeways By Time of Day



Percentage of Crashes: March and April 2019 vs March and April 2020



2. AIR QUALITY

Regional Air Quality Impacts During Covid-19

- ▶ Emissions from vehicles reduced
- ▶ Lowest frequency of high-level, unhealthy, exposure days to ozone
- ▶ Cleaner air = blue(r) skies
- ▶ Leading to a healthier populous (under review)
- ▶ Real world analysis on local contributions suggest multi-state SIP's to reduce background
- ▶ How Can We Sustain Impacts? (To be determined)
 - Electric and Fuel Cell Vehicles
 - Travel Demand Management (Telecommuting)

Exceedances influenced by meteorological conditions

North Central Texas Ozone Comparison

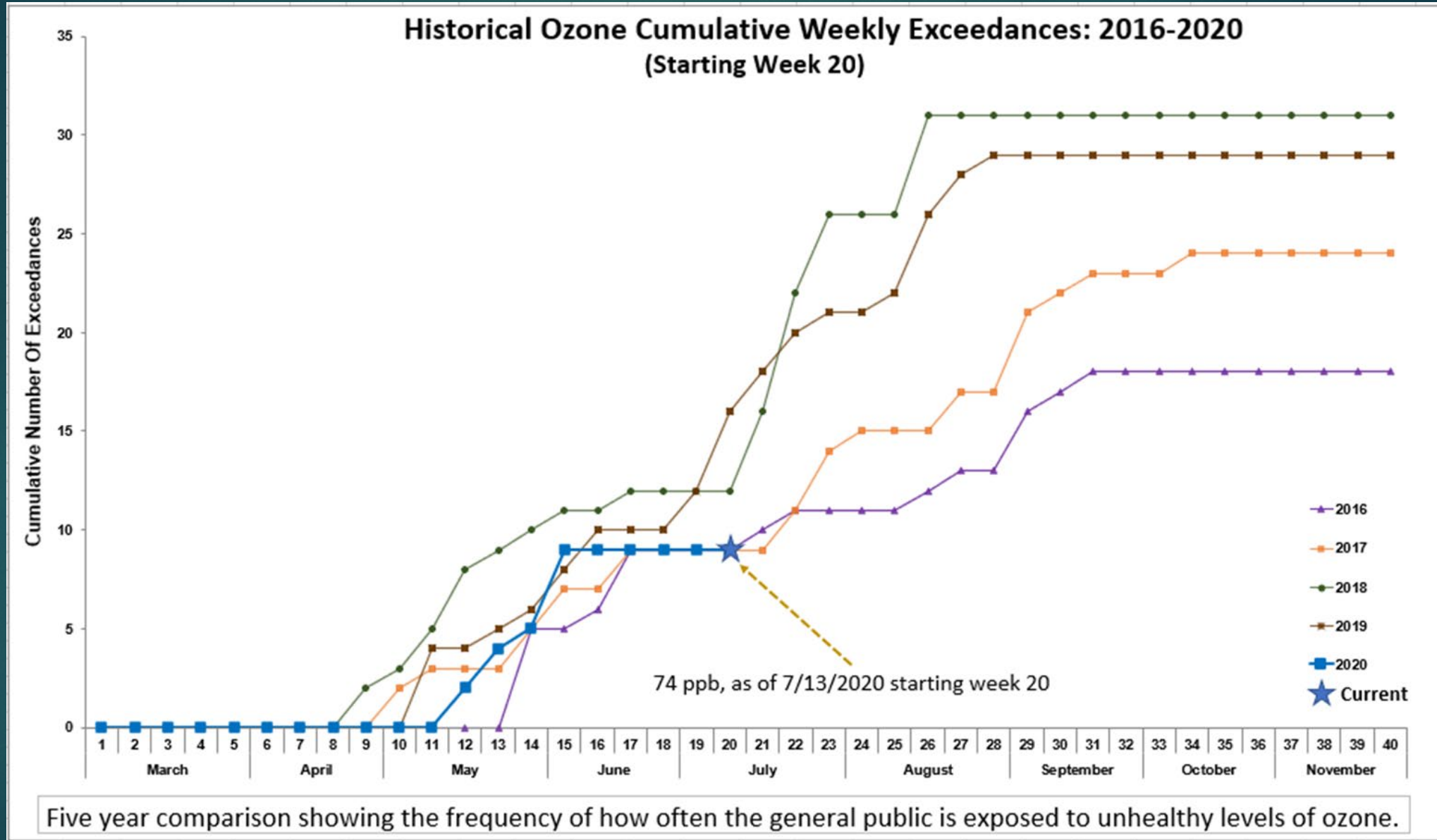
		3 Year Design Value			
2017		2018	2019	2020*	
March	2 yellow days High: 62 at Eagle Mtn Lake	8 yellow days High: 63 at Denton	10 yellow days High: 66 at Cleburne	3 yellow days High: 64 at Pilot Point	
April	10 yellow days High: 68 at Dallas Hinton	16 yellow days 2 orange days High: 81 at Dallas North High: 81 at Dallas Hinton	12 yellow days High: 69 at Greenville	8 yellow days High: 69 at Rockwall High: 69 at Grapevine	
May	15 yellow days 5 orange days High: 80 at Dallas North High: 80 at Dallas Hinton	9 yellow days 6 orange days 2 red days High: 92 at Eagle Mtn Lake	6 yellow days 5 orange days High: 80 at Pilot Point	10 yellow days 3 orange day 1 red day High: 86 at Grapevine Fairway	
June	6 yellow days 4 orange days High: 84 at Cleburne Airport	7 yellow days 2 orange days High: 85 at Dallas North	12 yellow days 5 orange days High: 76 at Frisco High: 76 at Arlington Municipal High: 76 at Cleburne Airport	16 yellow days 5 orange days High: 77 at Eagle Mountain Lake	
July	14 yellow days 3 orange days High: 81 at Cleburne Airport High: 81 at Granbury	14 yellow days 8 orange days 3 red days High: 92 at Grapevine Fairway	6 yellow days 7 orange days High: 83 at Cleburne Airport	8 yellow days High: 69 at Dallas North	

Data Source: TCEQ

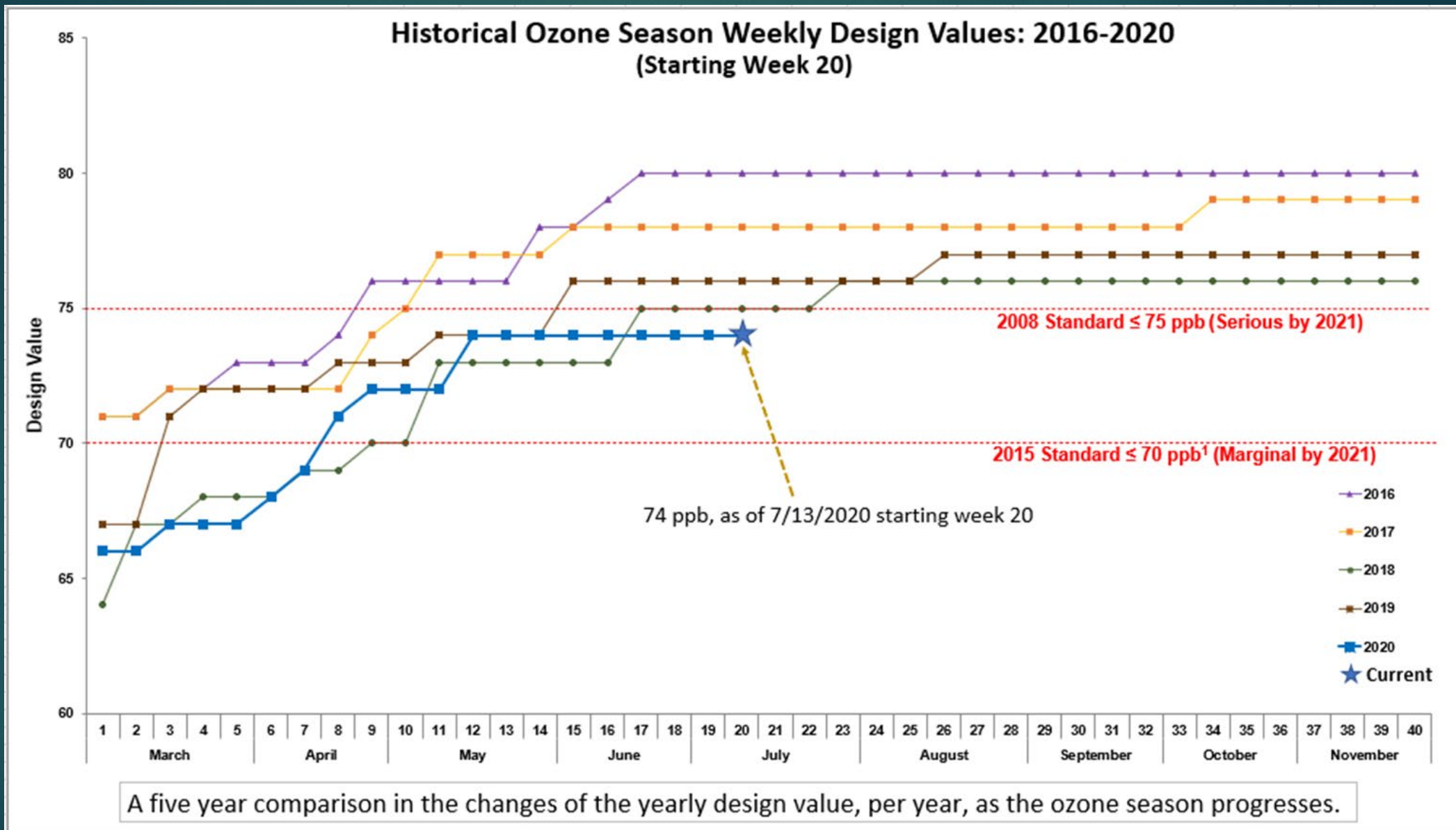
Data Analysis: NCTCOG

* as of July 16, 2020. At this time last year (July 16, 2019), there were four Yellow days and two Orange days.

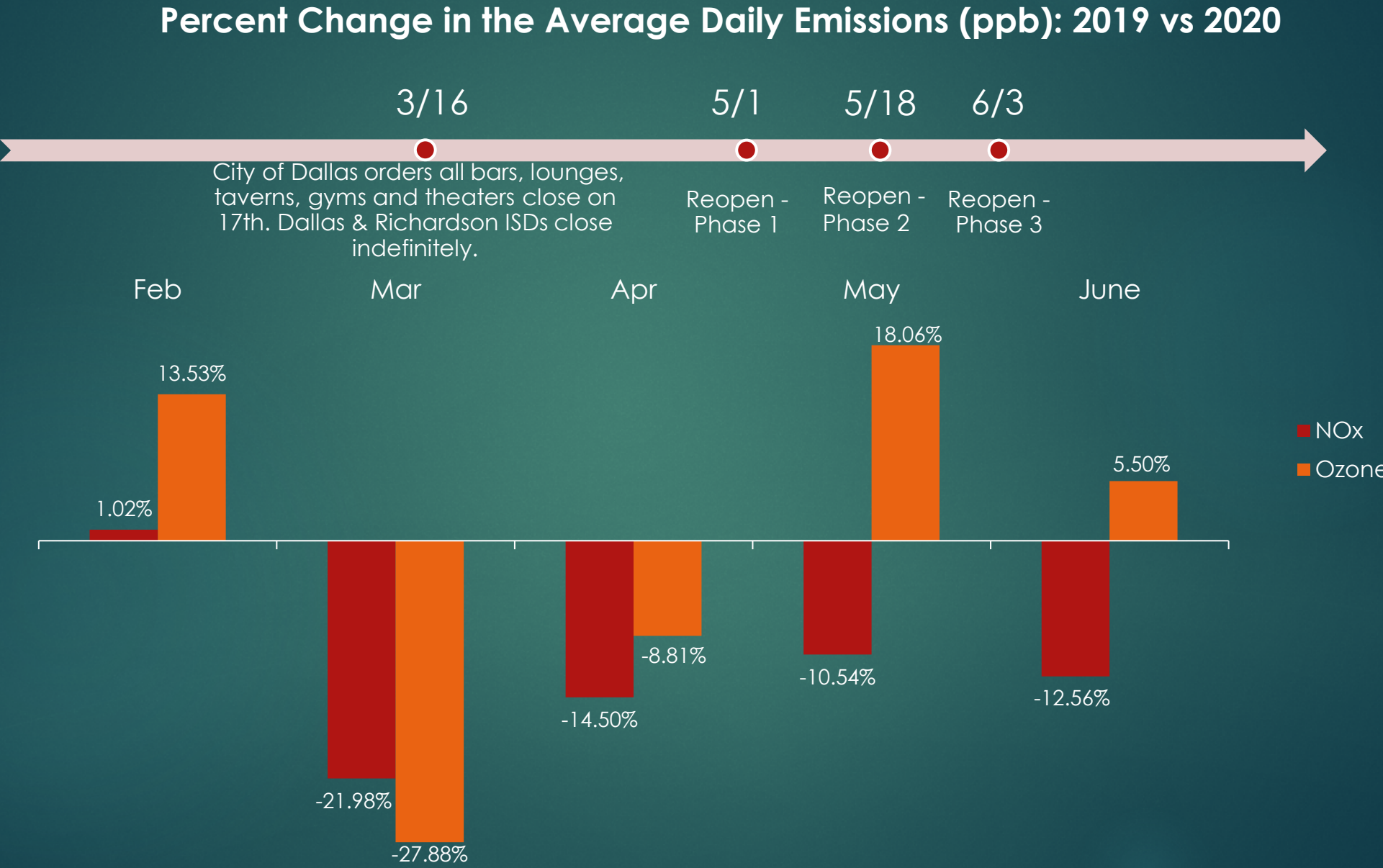
Cumulative Ozone Exceedances, 2016-2020



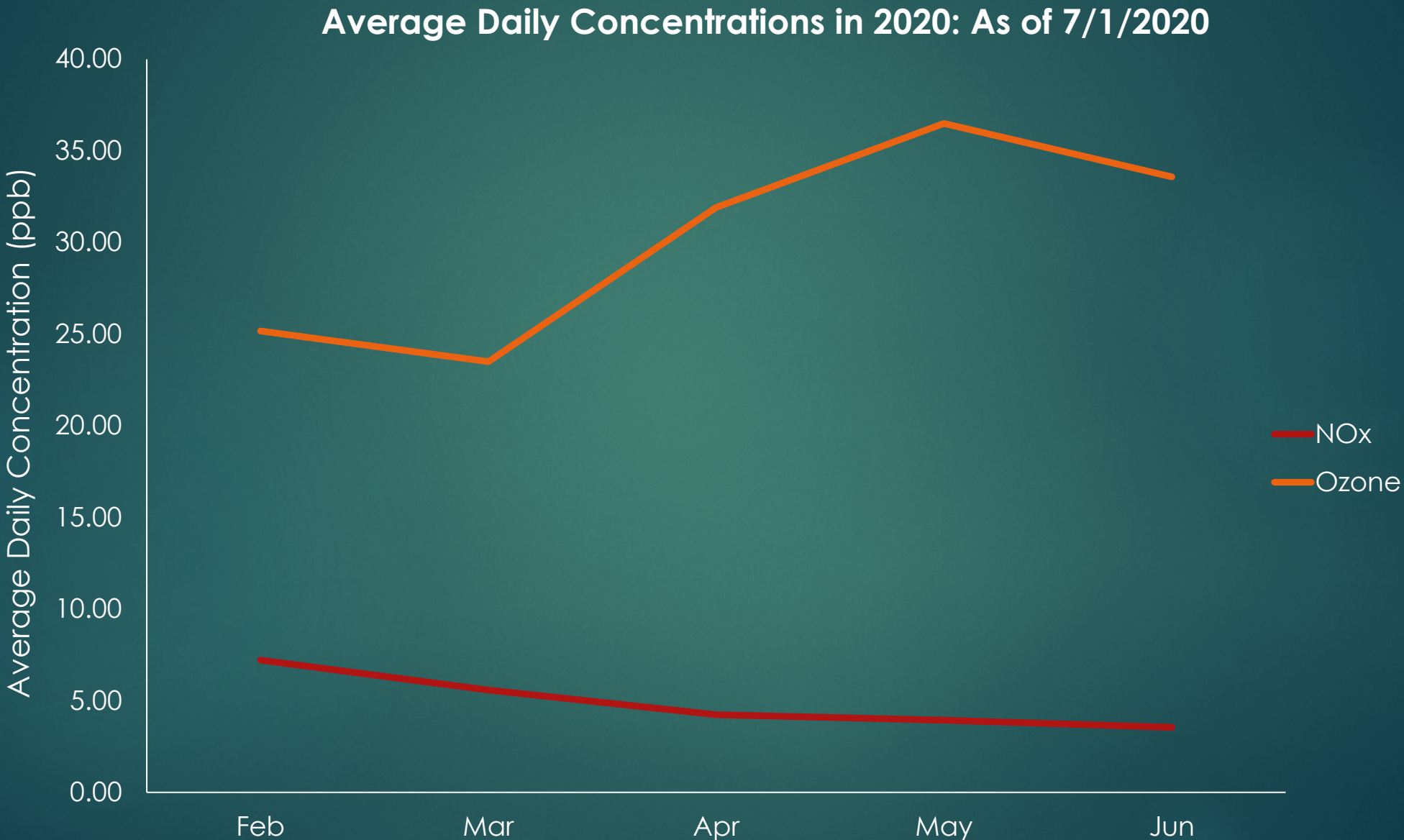
Weekly Ozone Design Values, 2016-2020



Regional Monitor Data: Percent Change 2019 vs 2020



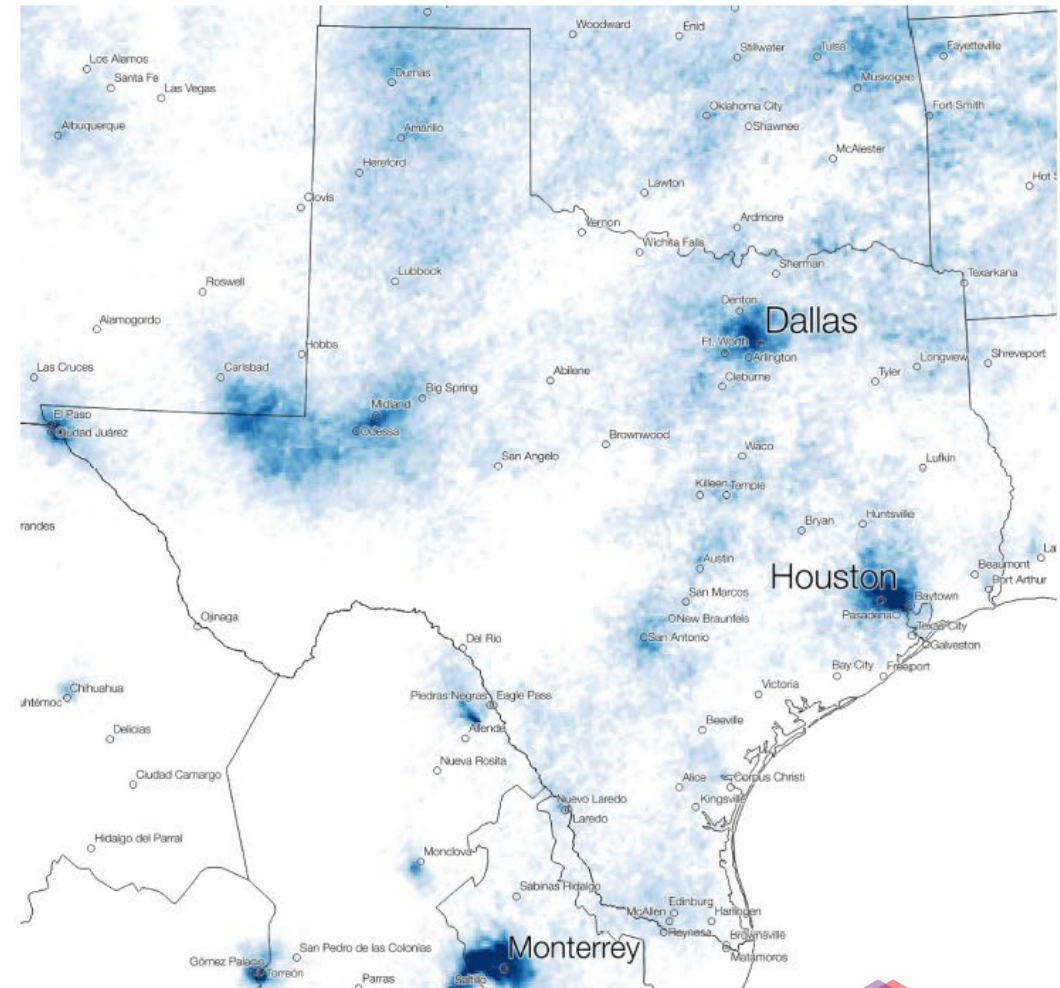
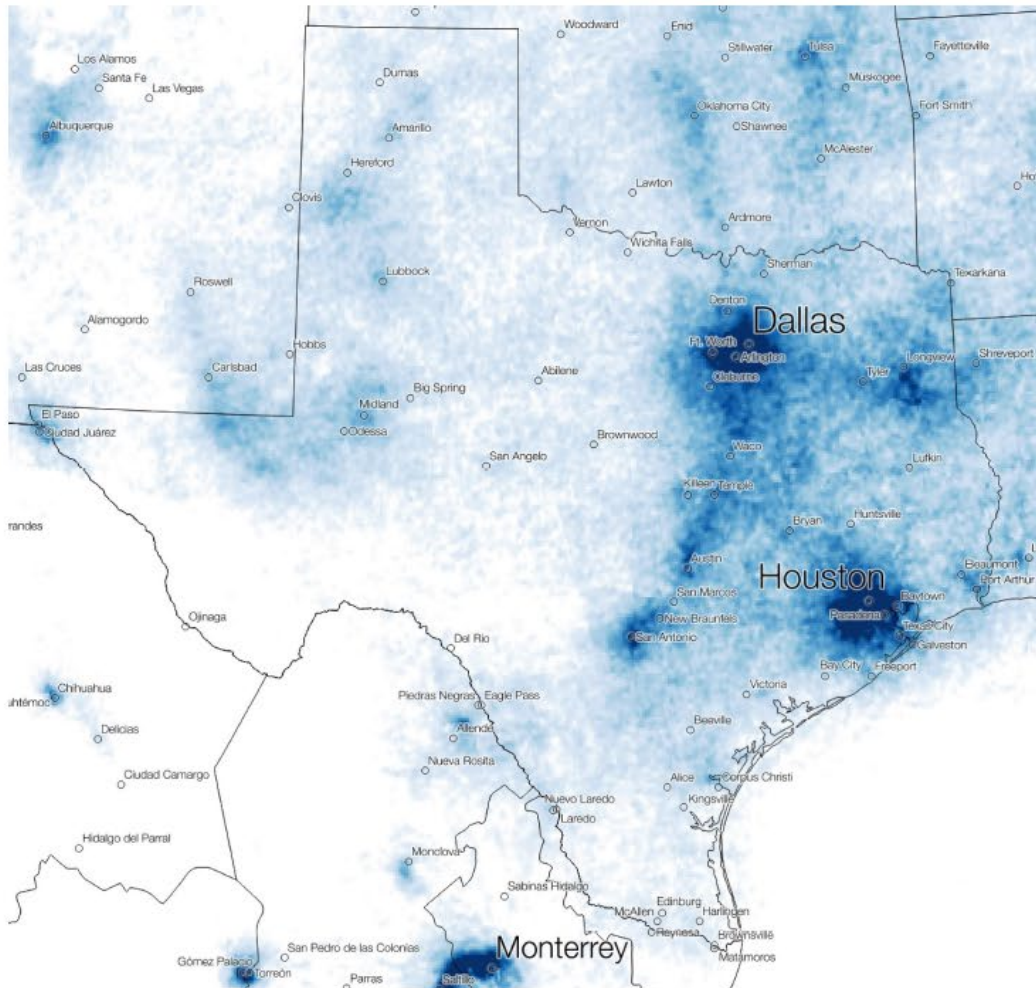
Regional Monitor Data: Daily Average Emission Concentrations



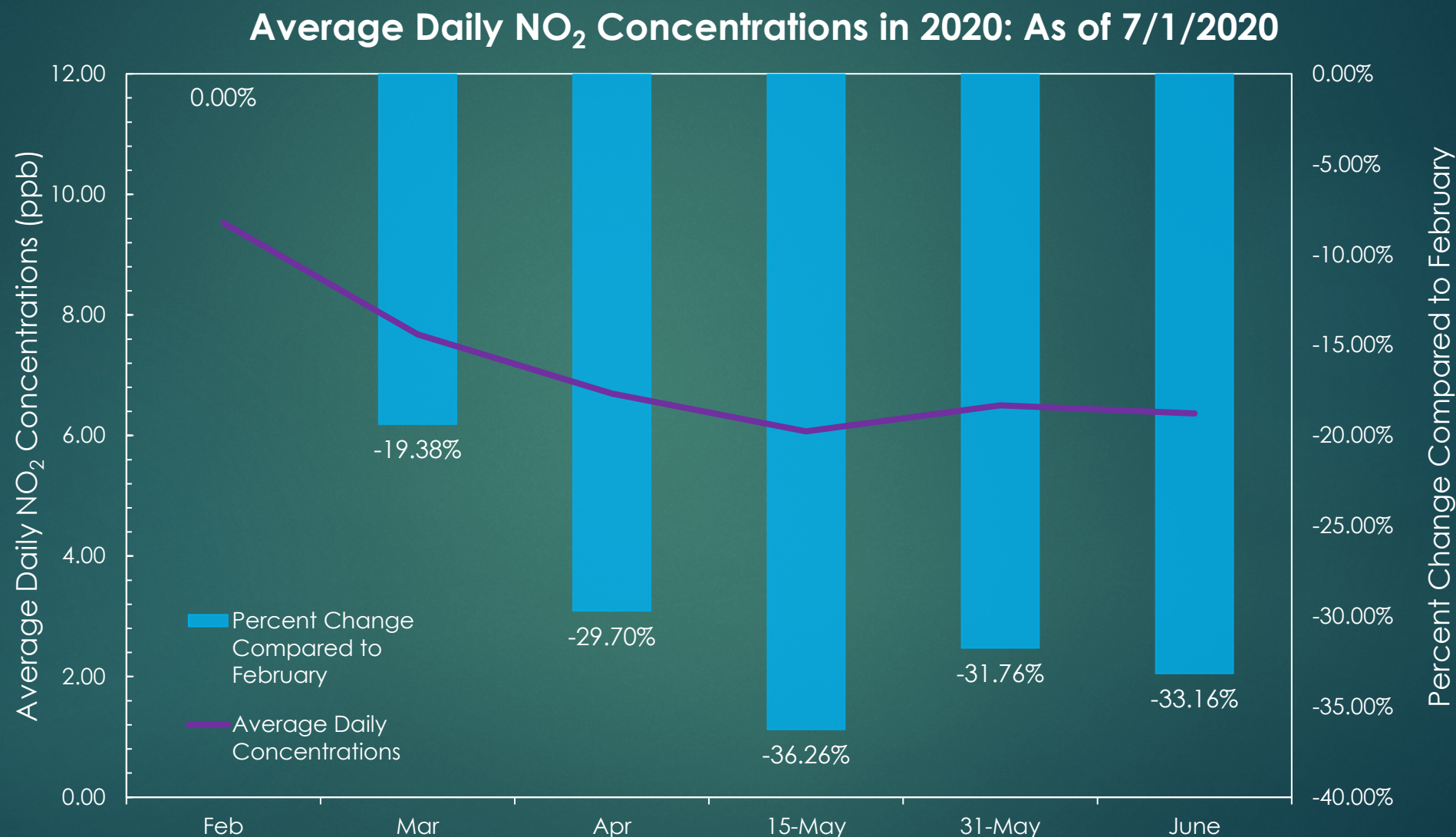
Regional Nitrogen Dioxide (NO₂) Tracking

February 2020

Week of March 29, 2020



Regional Nitrogen Dioxide (NO₂) Monitor Data



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2020
Try Parking It

**Website
Features**

TryParkingIt.com



Rideshare. Record. Reward.

Air North Texas Coalition

**Caryn Sanders
North Central Texas Council of Governments
July 16, 2020**

**NCTCOG TDM Goal:
Implementation of
strategies that reduce the
demand for drive-alone
travel on roadways by
offering alternatives to
driving alone.**

**Regional TDM-Related
Programs and Initiatives:**

- Regional Employer Trip Reduction (ETR) Program
- Regional Vanpool Program
- [TryParkingIt.com](https://www.tryparkinglt.com), Ride-match and Commuter Tracking System
- Park-and-Ride Facilities
- Bicycle / Pedestrian Initiatives

WHAT IS TRAVEL DEMAND MANAGEMENT (TDM)?

Program Goals:

- Educate Employers and Commuters About Congestion and Air Quality Benefits from Alternative Commute Strategies
- Offer Assistance in Starting or Managing Alternative Commute Programs
- Increase Number of Employee Transportation Coordinators (ETCs) in Our Region
- Increase Active Participation on www.TryParkingIt.com.

Program Resources:

- North Central Texas ETR Manual for Employers
- Trip Reduction Program Startup Guidelines/Recommendations
- TryParkingIt.com - Ride-match and Commuter Tracking System
- Breakroom Posters and Outreach/Educational Items
- Rideshare Parking Sign and Placard Templates

EMPLOYER TRIP REDUCTION (ETR) PROGRAM

NCTCOG TDM Staff Available for:

- Employer-specific ETR Program Development
 - Provide Information on Alternative Commute Options
 - Program Support for City Staff / Employer Communications
 - Employee Informational Sessions
 - Provide TPI Marketing Material
 - TPI Website Assistance
 - ETC Assistance and Training
 - Outreach Event Participation
- **Due to current COVID-19 restrictions, NCTCOG staff is unable to participate in “in-person” events; however TPI outreach and educational items can be provided upon request.**

REGIONAL ETR PROGRAM SERVICES

Go Green & Earn Rewards

Try Parking It is a resource for finding greener commute options like carpool, vanpool, and transit in North Central Texas. You can also track your greener trips, including biking, walking, and telecommuting to earn instant rewards. [Join today](#). It's free and easy to do!

Join

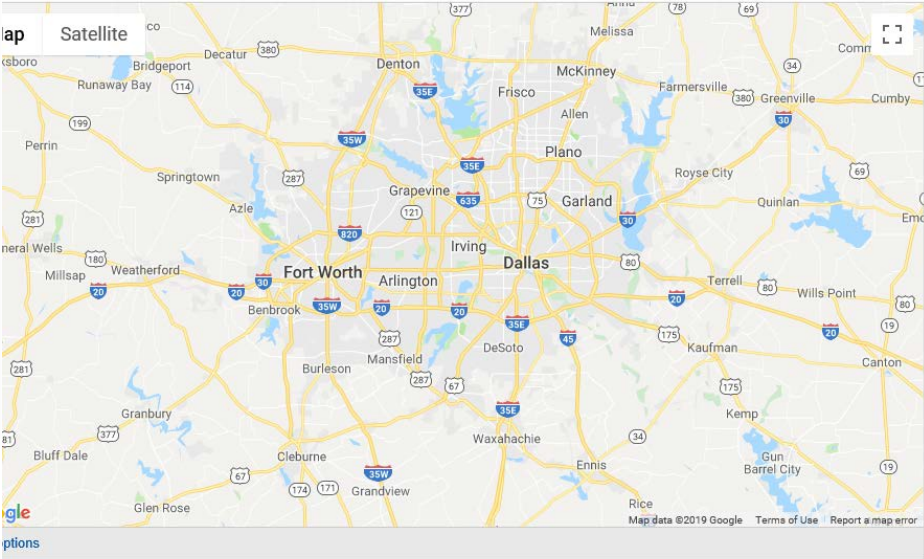
Save \$



1 Rideshare Matches

Origin < 2 mi. from: A

Destination < 2 mi. from: B




TRY PARKING IT OVERVIEW

TRYPARKINGIT.COM WEBSITE FEATURES

- Simple Registration Process
- Easy Access Dashboard Layout
- Ability to Track Reoccurring Trips
- Multi-modal Trip-logging Capabilities
- Rideshare Matching (Carpool and Vanpool)
- Transit, Biking, and Walking Partner/Mentor Matching
- Along-the-Way Route Matching
- Interactive Mapping Capabilities (Bike Share/Points of Interest)
- Employer Portals and Administrators
- Instant Reward Redemption
- Integrated Reward System – Monthly Drawings and Instant Purchases
- G.R.E.E.N. Reward Partners and Entertainment Book Rewards
- Third – Party App Syncing (Under Armour, Strava, Hytch)
- Enhanced Vanpool Seat Availability Reports
- Commuter Challenges
- Survey Administration Capabilities



Hytch

Connect to your [Hytch](#) account and we'll automatically record your [Hytch](#) trips in your Try Parking It account.

 ☐ connect


Strava






Connect to your [Strava](#) account and we'll automatically record [Strava](#) trips in your Try Parking It account. This will only

 ☐ connect 

Under Armour

Connect to your Under Armour account and we'll automatically record your [MapMyWalk](#), [MapMyRide](#), [MapMyHike](#), [MapMyRun](#), and [MapMyFitness](#) trips in your Try Parking It account. This will only record trips where you travel somewhere.





☐ connect

APP SYNCING



INTEGRATED REWARDS SYSTEM

Points earned for:

- Each Logged Alternative Commute
- Brown Bag Lunches
- User Site Activities – Sharing Website Activity on Social Media
- Creating an Account

Types of Rewards

- Instant Reward Redemptions
- Try Parking It G.R.E.E.N. Reward Partners
- Entertainment Rewards
- Contests: Earned Points Used to Enter Reward Drawings
- Purchase Rewards: Earned Points Used as Currency to Buy Prizes

Raffle

Twisted Root Burger Company - Raffle for \$15 Gift Card



Enter to be one of two lucky winners of a \$15 gift card to Twisted Root Burger Company. Twisted Root offers a wide variety of beef, turkey, and vegan burgers as well as handmade custard shakes. They make all toppings and condiments in-house, use locally baked buns, and are chef-owned and operated.

 [visit website](#)

Record trips and earn points that can be used to enter this raffle. The raffle will conclude at 9:00 AM Eastern Time on October 01, 2019, whereupon the winners will be randomly selected. The winners will be notified via email and their prize will be delivered shortly thereafter. All entrants will be notified after the winners are confirmed. Odds of winning are 1 in 120 or better. Prize cannot be exchanged for cash.

Sort by:

Distance from home

Distance from work/school

Newest

Name (A→Z)

Name (Z→A)

Points (low→high)


Points (high→low)

Oldest


☐ Map view

Show


Reward




Twisted Root Burger Company
Raffle for \$15 Gift Card




Dave & Buster's
Raffle for \$30 Gift Card



TCBY
Buy One Yogurt Get One 50% Off





Krispy Kreme
Free Donut




ilumi
15% Off 1 ilumi Smartbulb


Showing 1 to 5 of 31 entries


Raffles


Dining



Activities


REWARDS




Try Parking It

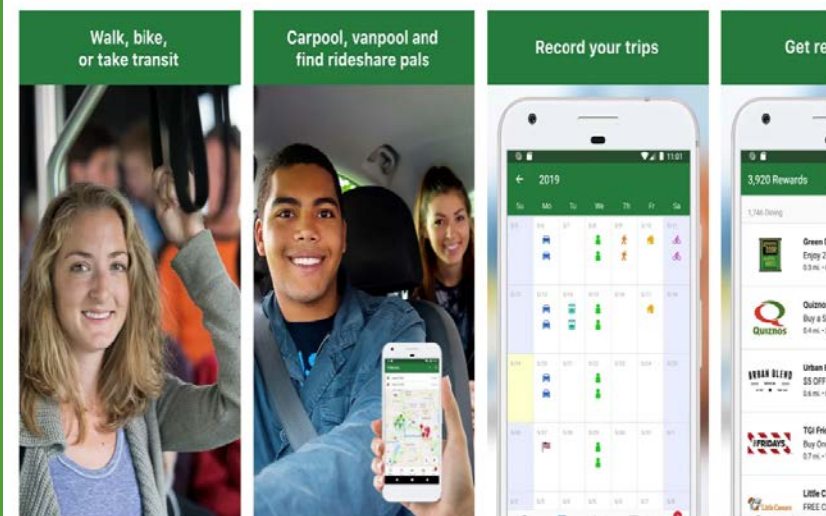
Agile Mile, Inc. Travel & Local

 Teen

 This app is compatible with all of your devices.

 Add to Wishlist

[Install](#)



Use the Try Parking It app to find rideshare matches and earn rewards in North Central Texas.

Simply record your carpool, vanpool, walk, bike, telecommute, or transit trips in your Try Parking It account and earn points that can be redeemed for rewards.

Get started today – it's free and easy to do!



Rideshare. Record. Reward.

TRY PARKING IT APP

Profile

Your Profile

Username:

First name:

Last name:

Gender:

Smoker?

Time zone:

Home address:

Products

Contact info

Do not contact

Emails

Invite friends

Locations

Password

Photo

Profile

Social

Vehicles

Delete account

ORGANIZATION (your work or school)

Org. name:

Org. website:

Department:

Org. address:



Commute days:

I leave my home at:

Start my return trip at:

I'll respond to: who want to

car/vanpool: ☐ yes ☒ no

bike: ☐ yes ☒ no

walk: ☐ yes ☒ no

take transit: ☐ yes ☒ no

About me:

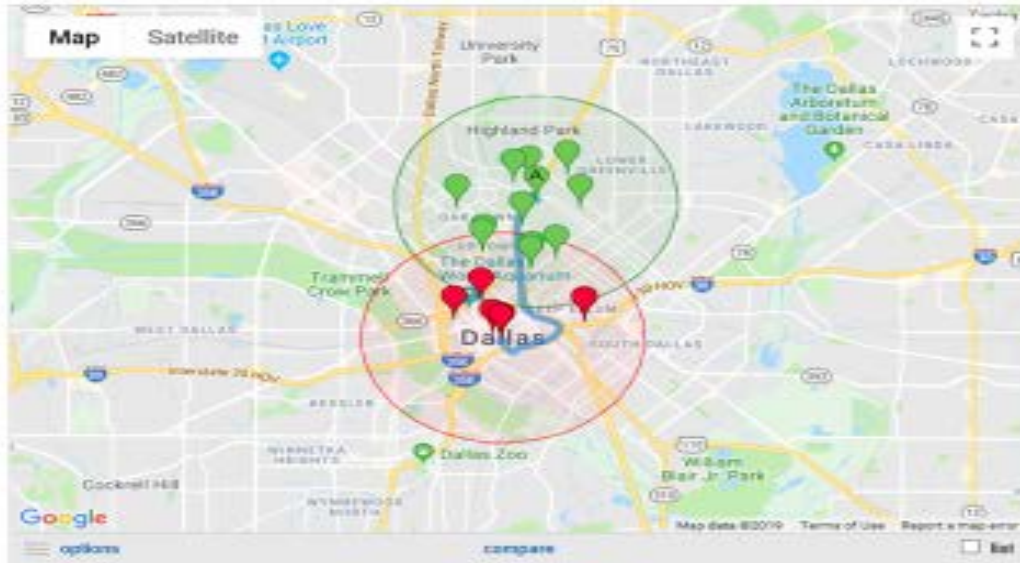
USER ACCOUNT SETUP

Find Rides

Find Rideshare Matches

Origin < 2 mi. from:  Liberty Mutual Insurance, North Central Expressway, Dallas, TX

Destination < 2 mi. from:  Dallas, TX 75243, USA



12 matches

 Transit available

Interested in:

- ☒  Carpool
- ☒  Vanpool
- ☒  Biking
- ☒  Walking
- ☒  Transit

On the way? ☐ Yes ☒ No

Just buddies? ☐ Yes ☒ No

Same org? ☐ Yes ☒ No

Carpooling:

Smokers:

Gender:

Language:

Join after:

Active:

Depart @:

Return @:











Days:

- ☐ Sunday
- ☒ Monday
- ☒ Tuesday
- ☒ Wednesday
- ☒ Thursday
- ☒ Friday
- ☐ Saturday

RIDE MATCH LOCATOR

COMMUTE CALENDAR: TRAVEL MODES

- Carpool
- Vanpool
- Transit (Bus/Rail)
- Bicycle
- Scooter
- Walk
- Telework
- Drive Alone Trips
- Brown Bag Lunch

- Mode:
- ☐  Carpool or vanpool
 - ☐  Drive alone
 - ☐  Transit
 - ☐  Walk
 - ☐  Bike
 - ☐  Scooter
 - ☐  Multi (e.g., walk + transit)
 - ☐  Telecommute
 - ☐  Brown bag lunch
 - ☐  Compressed week



try parking it

[Find Rides](#) [Trips](#) [Rewards](#) [Account](#) [More](#) [Sign out](#) [f](#) [t](#) [i](#)

Record Trip

Trip Type

New or saved?

New trip



- Mode:
- ☐ Carpool or vanpool
 - ☐ Transit
 - ☐ Walk
 - ☐ Bike
 - ☐ Multi (e.g., walk + transit)
 - ☐ Telecommute
 - ☐ Brown bag lunch
 - ☐ Compressed week

Details

Commuting? ☒ Yes ☐ No

Round trip? ☒ Yes ☐ No

Depart date: 9/3/19

Depart time: 7:00 am



Return date: 9/3/19

Return time: - Select -



Travelers: you + 2



Members: Enter members on this trip

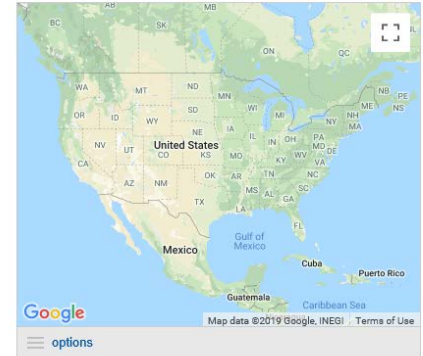
Record weekly? ☐ Yes ☐ No

Route

Origin: Enter address



Destination: Enter address



Details

Commuting? ☐ Yes ☐ No

CREATE TRIP PROFILE

Points

Your Points

Status	Points
Awarded	5,500
Redeemed	0
Balance	5,500

Points Awarded

Show 10 entries Search:

Date	Action	Points
8/30/19	Compressed work week	200
8/29/19	Telecommute	200
8/28/19	Brown bag lunch	100
8/27/19	Brown bag lunch	100
8/23/19	Brown bag lunch	100
8/22/19	Telecommute	200
8/21/19	Brown bag lunch	100
8/20/19	Brown bag lunch	100
8/19/19	Brown bag lunch	100

Completed Trips

Your Trips

Type	Trips	Miles	Calories
Brown bag	25	125	-
Telecommute	9	405	-
Rideshare (you drove)	0	0	-
Rideshare (you rode)	0	0	-
Transit	0	0	-
Walk	0	0	-
Bike	0	0	-
Compressed work week	0	0	-
Total:	34	530	0

COMPLETED COMMUTE TRIPS
AND POINTS AWARDED

Calendar

Aug 25, 2019 – Sep 28, 2019						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
8/25 Go!	8/26 Go!	8/27 🍷 Brown bag Go!	8/28 🍷 Brown bag Go!	8/29 🏠 Telecom. Go!	8/30 ⬇️ Comp. Go!	8/31 Go!
9/1 Go!	9/2 🍔 Go!	9/3 🍷 Brown bag Go!	9/4 🍷 Brown bag Go!	9/5 🏠 Telecom. Go!	9/6 🍷 Brown bag Go!	9/7 Go!

Go!	Go!	Go!
9/22	9/23  Brown bag	9/24  Brown bag
Go!	Go!	Go!

Print



Employee: Caryn Sanders
Email: csanders@nctcog.org
Organization/Department: North Central Texas Council of Governments / Tr
Commuter Report: August, 2019

An alternative commute is defined as a trip that assists in reducing congestion on roadways resulting in er

Qualifying Alternative Commutes:

- Carpooling or Vanpooling
- Taking Transit
- Walking
- Bicycling
- Late Starts after 10 AM
- Telecommuting
- Compressed Work Day Off

Brown Bag Lunches are not considered an alternative commute, but one entry per day will be allotted rew

Commute Summary

of Qualifying Days: 18
of Qualifying Alternative Commute Trips: 12
of Brown Bag Lunches: 12

Supervisor Signature

Date

Employee Transportation Coordinator Signature

Date

Date	Qualifying Commute	Brown Bag Lunch	Late Start
Thu, 8/1/19			
Fri, 8/2/19			
Sat, 8/3/19			
Sun, 8/4/19			
Mon, 8/5/19			
Tue, 8/6/19			

PRINTED COMMUTE CALENDAR

Employer Administrator for Registered Employers

Individual Employer Landing Page

- Company Logo Highlighted
- Customizable Text Seen Only By Registered Employees
- Track Environmental and Financial Savings by Site or Department

Employer Administrator Reports

- User Data Reports
- Calendar Reports
- System Report
- Custom Query Reports

EMPLOYER LANDING PAGE FUNCTIONALITY

Go Green & Earn Rewards

Try Parking It is a resource where UNT Health Science Center employees can find greener commute options like carpool, vanpool, and transit. You can also track your greener trips, including biking, walking, and telecommuting to earn instant rewards. [Join today](#). It's free and easy to do!

Join

Save \$



Partner

North Central Texas Council of Governments



North Central Texas
Council of Governments

The North Central Texas Council of Governments is pleased to offer Try Parking It — a service where you can record your greener trips, track your savings, and earn rewards.

Looking for a better commute? You can use Try Parking It to find vanpools, carpool pals, bike buddies, transit options, and more.

CUSTOMIZABLE LANDING PAGE



Select Members

Affiliated with: Any organization ▼

Who live: in ▼ Any region ▼ or ▼

Who commute: to ▼ Dallas-Ft Worth MSA - NCTCOG ▼

Co-branding: Any ▼

Run Report

Save Settings

Edit Groups

Manual

Select Date Range

Time period: Monthly ▼

Start date: Jun ▼ 19 ▼

End date: Jul ▼ 20 ▼

EMPLOYER ADMINISTRATIVE REPORTS

DURING THE PERIOD

New members	173	(88% prev. dr. alone)
Active members	86	(75% prev. dr. alone)
Deleted accounts	28	

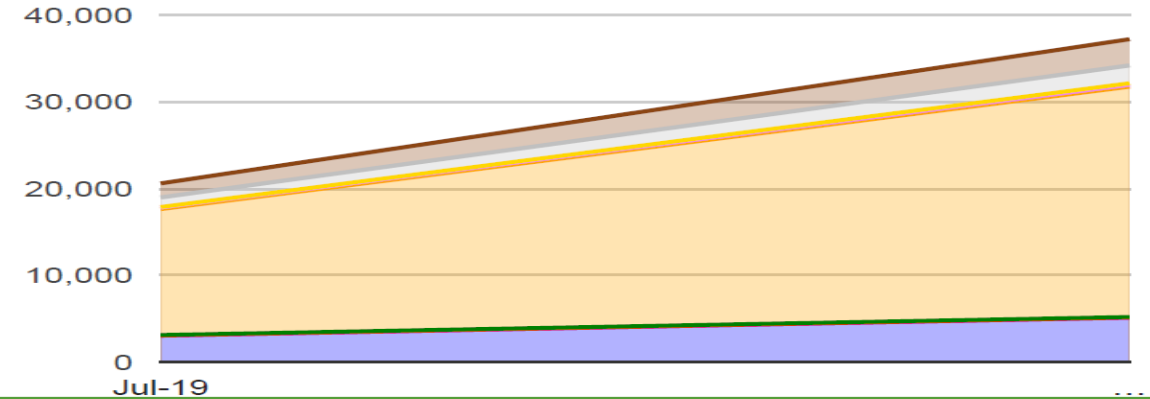
All trips ▼	All modes ▼	Carpool ▼
Recorded trips	1,822	565
Participants	75	18
Avg trip distance (mi)	16.5	22
Avg vehicle occupancy	-	2.1
Reduced trips	2,591	211
Reduced miles (VMT)	36,788	5,162
Gallons of gas saved	1,671	221
Reduced NOx (lbs)	9.08	1.27
Reduced VOC (lbs)	2.03	0.28
Reduced PM 2.5 (lbs)	0.32	0.05
Reduced CO (tons)	0.13	0.02
Reduced CO2 (tons)	16.4	2.17
Money saved	\$21,337	\$2,994

40

0
Jul-19

Reduced miles (VMT) - cumulative ▼

Reduced miles (VMT) - cumulative



ADMINISTRATIVE DASHBOARD CUSTOMIZABLE REPORTS

NCTCOG Travel Demand Management Program Contacts

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AIR NORTH TEXAS

CAMPAIGN BI-MONTHLY QUANTIFICATION & SOCIAL MEDIA REPORT

MAY 5, 2020 – JULY 5, 2020

Air North Texas Coalition
July 16, 2020
Kenny Bergstrom, NCTCOG



Air North Texas Web Analytics

Visits

1974

Decreased

By 78% compared
to 2019

Avg. Time

1:08

Increased

By 23 seconds
compared to 2019

Pageviews

3878

Decreased

By 76% compared
to 2019

New Visits

1922

Decreased

By 78% compared
to 2019



Visits By Device



1018

84% decrease
compared to 2019



56

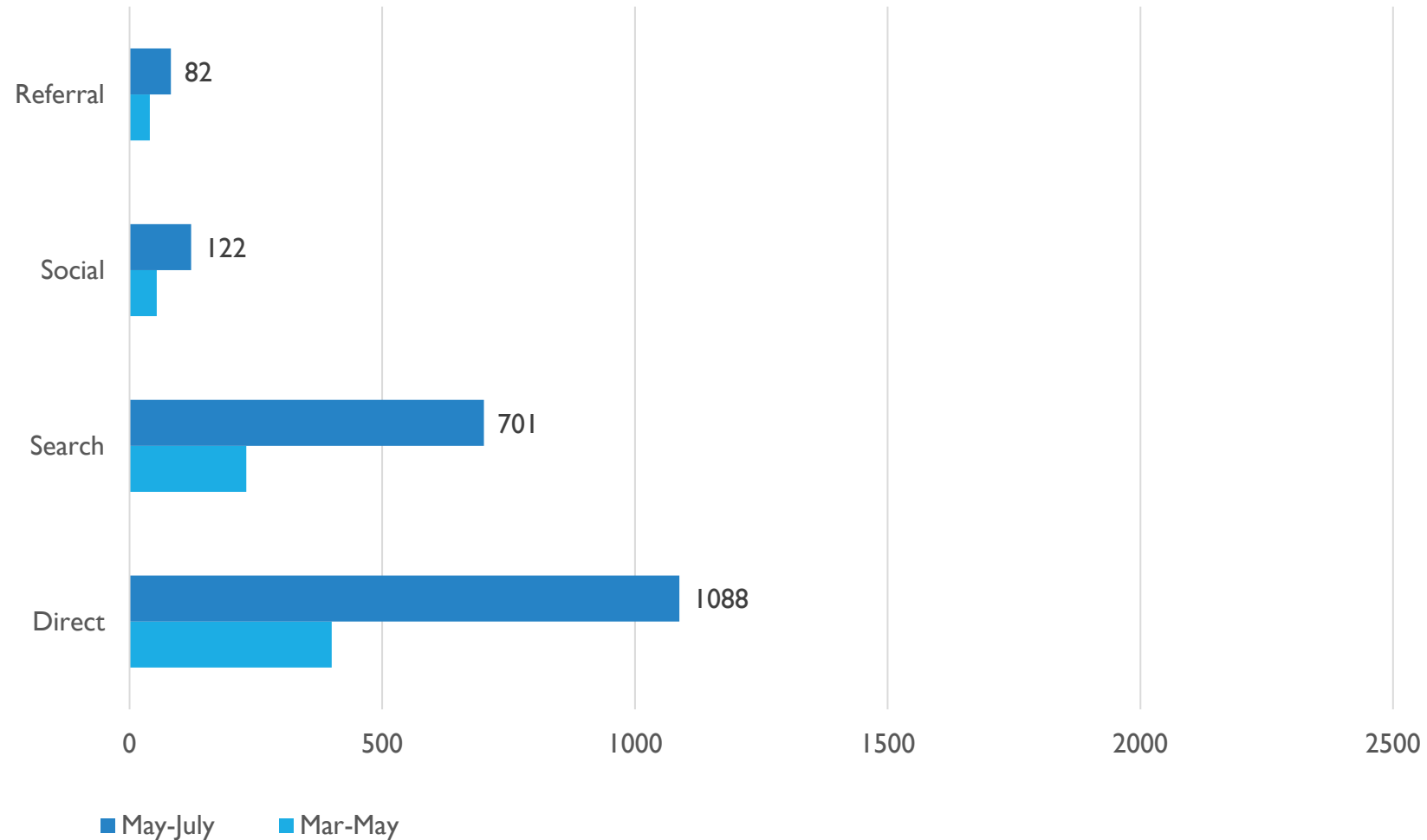
93% decrease
compared to 2019



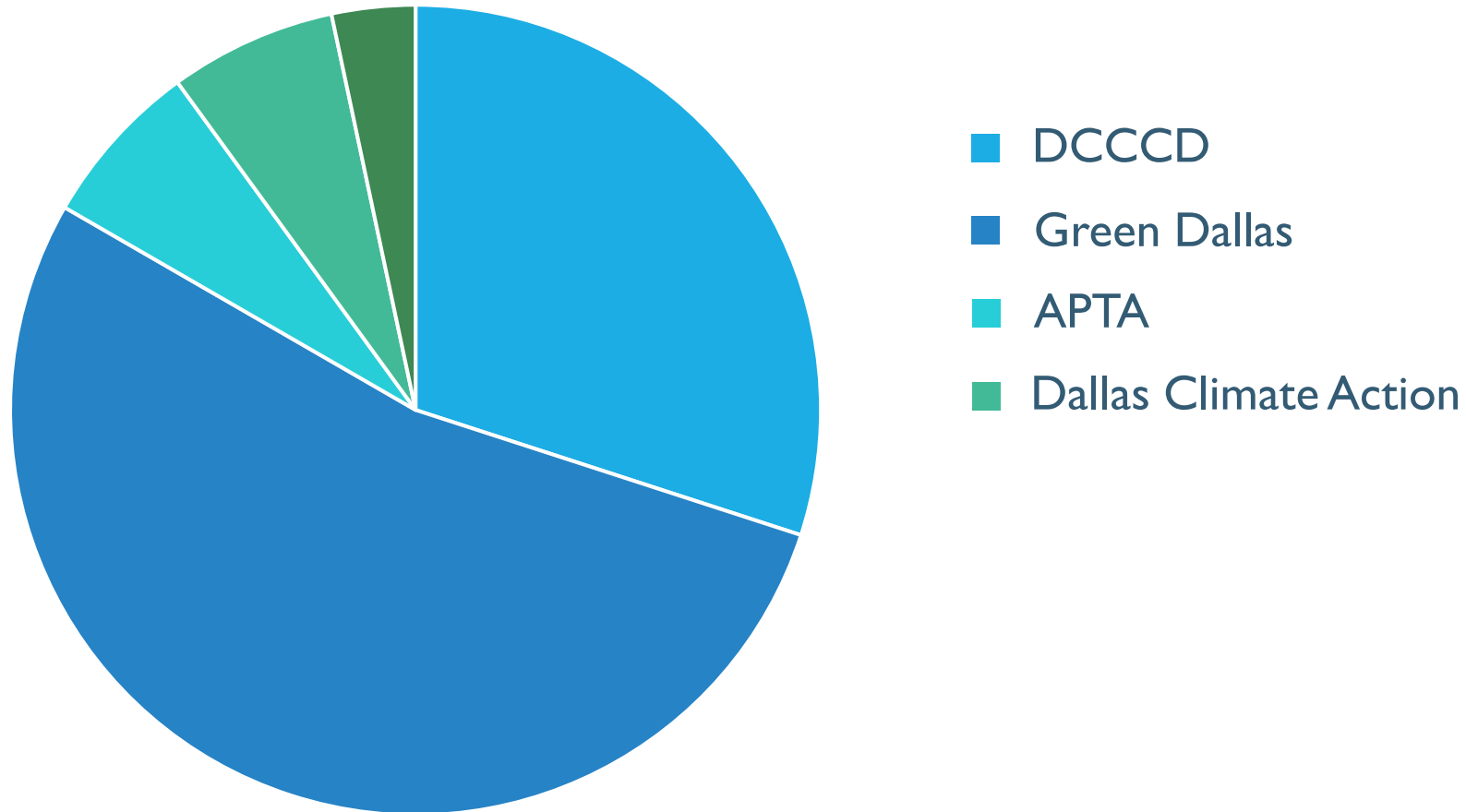
900

42% decrease
compared to 2019

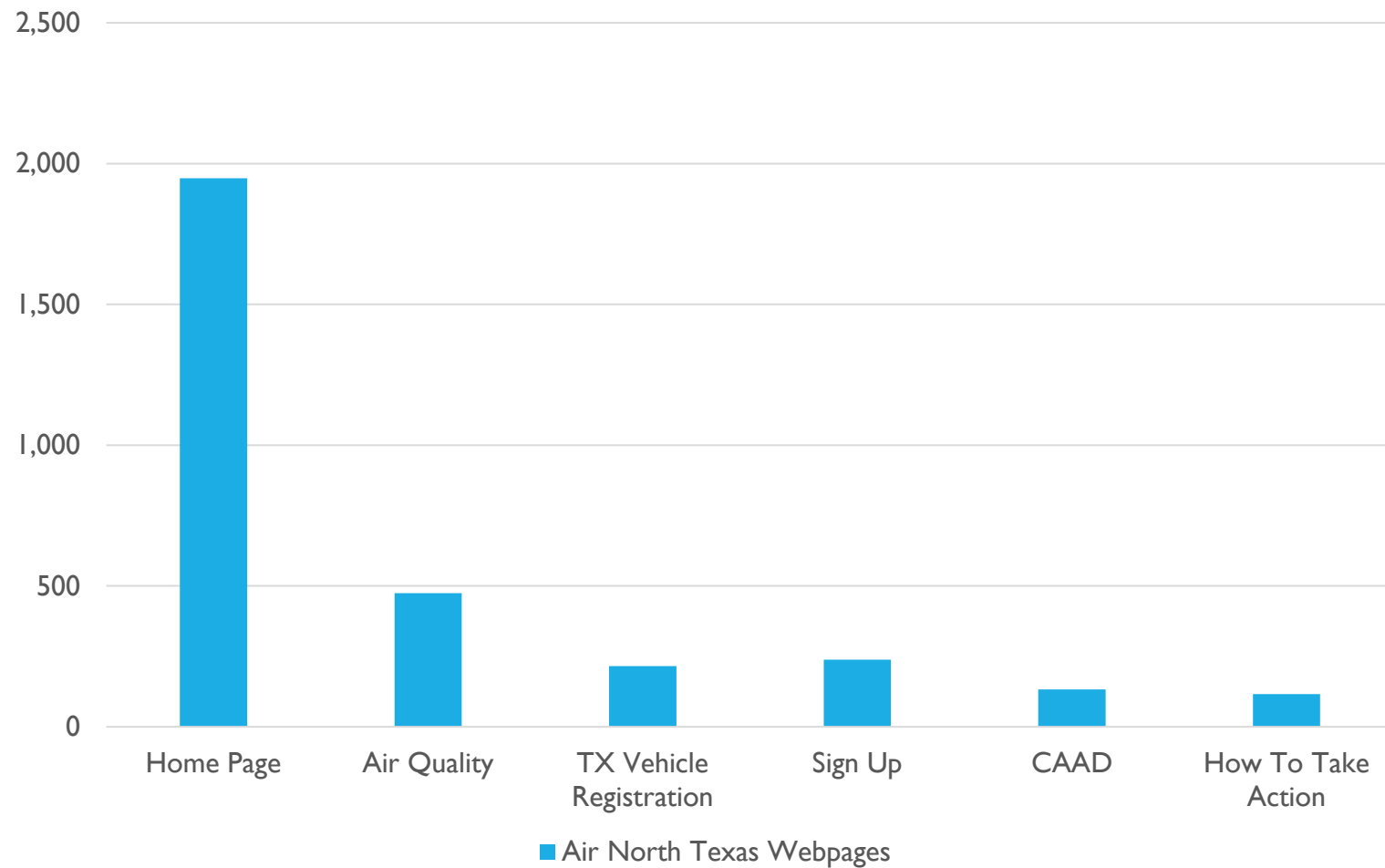
How Visitors Found Air North Texas

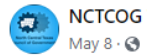


Top Directed Sites



Top Pages Viewed





NCTCOG Transportation Department
May 8 · 🌐

Air Quality Awareness Week may be ending, but the resources we provide on air quality in our region are always available! Visit AirNorthTexas.org to learn more. #AQAW2020



1

1 Share



NCTCOG Transportation Department
May 18 · 🌐

Ozone Action Day – Ozone in the DFW area Tuesday is predicted to be at Level Orange, unhealthy for sensitive groups. Children, older adults and people with lung disease, such as asthma, emphysema, or chronic bronchitis, should limit outdoor activity. Current ozone information: <http://bit.ly/9nC9vy>. Consider a clean air choice: <http://bit.ly/2oAbaPt>.



5

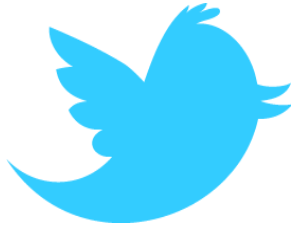
9 Shares



NCTCOG Transportation Department
July 8 at 11:37 AM · 🌐

#EPASmartWay verified technologies can help you find practical solutions to reduce GHGs & other pollutants so that we can all breathe healthy air! Learn more www.epa.gov/smartway/learn-about-smartway-verified-technologies





City of Grand Prairie - Municipal Government

@cityofgptx · Government Building

City of Grand Prairie - Municipal Government
July 7 at 2:03 PM · 🌐

We all have a part to play in protecting children from dirty air. Learn more ways to protect them at <http://ow.ly/GRZ550AnmRV> #AirNTX

We all need to do our part to protect children from dirty air. Learn more ways to protect them at www.aimorthtexas.org #AirNTX

🔗 See original · Rate this translation



👍 13

2 Comments 6 Shares

City of Grand Prairie - Municipal Government
June 27 at 4:20 PM · 🌐

Summer is heating up! We recommend you to use your ceiling fans as they allow you to raise your thermostat to about 4°F. Not only will you be cool, but you will also save energy, reduce air pollution and save money! #AirNTX

Summer is heating up! We recommend you to use your ceiling fans as they allow you to elevate your thermostat to approximately 4°. Not only will it be fresh, but it will also save energy, reduce air ... See More

🔗 See original · Rate this translation



👍 🙄 🗨️ 8

City of Grand Prairie - Municipal Government
June 14 at 6:01 PM · 🌐

Styrofoam containers and plastic cutlery can last for another 500 years before they start breaking down into microplastics. An item you used for less than an hour, will outlive you and future generations. #LoveWaterLoveLife #AirNTX

Los envases de espuma de poliestireno y los cubiertos de plástico pueden durar otros 500 años antes de comenzar a descomponerse en microplásticos. Un artículo que usó durante menos de una hora ... See More

See Translation



👍 🙄 🗨️ 20

3 Comments 8 Shares

City of Grand Prairie - Municipal Government
June 9 · 🌐

Congratulations to all of our winners who participated in the Arlo Art Contest. Thank you for your patience during the pandemic. View winning art at <http://ow.ly/hBI050A261n>

Congratulations to all our winners who participated in the Arlo Art Contest. Thank you for your patience during the pandemic. See the winners at <http://ow.ly/hBI050A261n>

🔗 See original · Rate this translation



👍 7





City of Bedford, TX-City Services

@BedfordTX · Government Organization



City of Bedford, TX-City Services

June 30 at 7:00 AM · 🌐

What is an Ozone Action Day and why are they issued? An Ozone Action Day is issued when high amounts of ozone are expected to be in the atmosphere specifically near the ground. Find out more at <https://bit.ly/2N1uVuC> #AirNTX

AIR QUALITY ALERT TODAY

**HIGH LEVELS OF OZONE EXPECTED
LIMIT DRIVING AND TIME SPENT OUTDOORS**

WHAT IS AN OZONE ACTION DAY?

- EMISSIONS FROM VEHICLES, ENGINES, FACTORIES, ETC. ARE RELEASED INTO THE AIR
- HIGH PRESSURE CAUSES LIGHT WINDS AND SINKING AIR WHICH TRAPS EMISSIONS
- SUNLIGHT AND HEAT CAUSE A CHEMICAL REACTION INCREASING GROUND-LEVEL OZONE
- INCREASED OZONE IS HARMFUL TO THE LUNGS OF CHILDREN & THOSE WITH RESPIRATORY ISSUES

11

1 Comment 7 Shares



City of Bedford, TX-City Services

June 14 at 8:09 PM · 🌐

Ozone is predicted to be at Level Orange in the DFW area tomorrow, June 15, 2020. Children, older adults, and people with lung disease, such as asthma, emphysema, or chronic bronchitis, should limit outdoor activity if ozone reaches Level Orange. Find out more at AirNorthTexas.org #AirNTX

ORANGE OZONE ACTION DAY

CHILDREN, OLDER ADULTS, AND PEOPLE WITH LUNG DISEASE, SUCH AS ASTHMA, EMPHYSEMA, OR CHRONIC BRONCHITIS, SHOULD LIMIT OUTDOOR ACTIVITY IF OZONE REACHES LEVEL ORANGE.



👍👎 5

1 Share





#AirNTX

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Air North Texas Coalition Web Page:

<https://www.nctcog.org/trans/about/committees/air-north-texas-coalition>

