EFFECTS OF COVID-19 ON TRANSPORTATION

Public Meeting
Francisco Torres, P.E.
May 5, 2020
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1. Roadway
Freeway Volume, All Week

Decrease in Traffic by County, Wk 1 vs Wk 4 March 2020

<table>
<thead>
<tr>
<th>County</th>
<th>Decrease</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>-35%</td>
</tr>
<tr>
<td>Denton</td>
<td>-40%</td>
</tr>
<tr>
<td>Johnson</td>
<td>-38%</td>
</tr>
<tr>
<td>Tarrant</td>
<td>-37%</td>
</tr>
<tr>
<td>Collin</td>
<td>-36%</td>
</tr>
<tr>
<td>Ellis</td>
<td>-34%</td>
</tr>
<tr>
<td>Dallas</td>
<td>-33%</td>
</tr>
<tr>
<td>Rockwall</td>
<td>-29%</td>
</tr>
</tbody>
</table>

Source: TxDOT Dallas/TxDOT Ft Worth Radar Traffic Counters
Toll Road Transactions - 2019 vs 2020

Transaction Decrease by Facility - March 2019 vs March 2020

- All: -14%
- DNT: -31%
- SRT: -31%
- PGBT: -29%
- AATT: -28%
- PGBW: -27%
- CTP: -24%
- MCLB: -18%
- 360: -14%
- LLTB: -13%

Source: NTTA
Toll Road Transactions - March 2020

Transaction Decrease by Facility - Wk1 vs Wk 4 March 2020

<table>
<thead>
<tr>
<th>Facility</th>
<th>Week 1</th>
<th>Week 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>-51%</td>
<td></td>
</tr>
<tr>
<td>DNT</td>
<td>-60%</td>
<td></td>
</tr>
<tr>
<td>PGBT</td>
<td>-56%</td>
<td></td>
</tr>
<tr>
<td>SRT</td>
<td>-55%</td>
<td></td>
</tr>
<tr>
<td>AATT</td>
<td>-54%</td>
<td></td>
</tr>
<tr>
<td>CTP</td>
<td>-54%</td>
<td></td>
</tr>
<tr>
<td>PGBW</td>
<td>-52%</td>
<td></td>
</tr>
<tr>
<td>MCLB</td>
<td>-50%</td>
<td></td>
</tr>
<tr>
<td>360</td>
<td>-45%</td>
<td></td>
</tr>
<tr>
<td>LLTB</td>
<td>-43%</td>
<td></td>
</tr>
</tbody>
</table>

Source: NTTA
Toll Road Transactions - Veh Class

Transaction Decrease by Vehicle Axle - Mar 2019 v Mar 2020

-29%  -30%  -25%  -10%  -9%  -6%

All  Class 2  Class 6  Class 3  Class 4  Class 5

Source: NTTA
Toll Road Transactions - Veh Class

Transaction Decrease by Vehicle Class - Wk1 vs Wk4 Mar 2020

<table>
<thead>
<tr>
<th>Class</th>
<th>Decrease</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>-57%</td>
</tr>
<tr>
<td>Class 2</td>
<td>-58%</td>
</tr>
<tr>
<td>Class 6</td>
<td>-17%</td>
</tr>
<tr>
<td>Class 5</td>
<td>-9%</td>
</tr>
<tr>
<td>Class 3</td>
<td>-7%</td>
</tr>
<tr>
<td>Class 4</td>
<td>-6%</td>
</tr>
</tbody>
</table>

Source: NTTA
# Heat Chart March 2020 - MPA

**Speeds, mph, by time of day (15-minute interval) and weekday of March 2020**

<table>
<thead>
<tr>
<th>TIME OF THE DAY</th>
<th>Early Morning Off-Peak</th>
<th>Morning Peak</th>
<th>Midday Off-Peak</th>
<th>Afternoon Peak</th>
<th>Night Off-Peak</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hour</td>
<td>Time</td>
<td>Time</td>
<td>Time</td>
<td>Time</td>
<td>Time</td>
</tr>
</tbody>
</table>

**Legend**

- Speeds, mph:
  - 10
  - 15
  - 20
  - 25
  - 30
  - 35
  - 40
  - 45
  - 50
  - 55
  - 60

**Source:** INRIX data delivered by FHWA through NPMRDS
Average Speed by time of day, March 2020

Avg Speed on all MPA Freeways/Major Roads - Wk1 vs Wk4 March 2020

Source: INRIX data delivered by FHWA through NPMRDS
2. TRANSIT
Transit - DART

Change in DART Total Ridership by Mode - Mar 2019 vs Mar 2020

- GoLink: 5%
- Streetcar: -11%
- Bus: -21%
- VanPool: -29%
- LRT: -29%
- Paratransit: -30%
- TRE: -36%

Source: DART
Transit - DCTA

DCTA Average Weekday Ridership - Mar 2019 vs Mar 2020

- **Rail**: Mar '19 - 1,440, Mar '20 - 793, 45% Decrease
- **Bus**: Mar '19 - 1,902, Mar '20 - 1,259, 34% Decrease

Source: DCTA and NCTCOG
Transit - Trinity Metro

Trinity Metro Average Weekday Ridership - Mar 2019 vs Mar 2020

- **22% Decrease**
  - **Bus**: 15,818 to 12,364 (22% decrease)

- **23% Decrease**
  - **TEXRail**: 1,241 to 959 (23% decrease)

Source: Trinity Metro and NCTCOG

Note: Data is based on raw numbers and does not necessarily represent final published numbers.
# Transit - Via

Change in Via Arlington's Weekday Performance - Wk 1 vs Wk 4 March 2020

<table>
<thead>
<tr>
<th></th>
<th>Ridership</th>
<th>Vehicle Revenue Mileage</th>
<th>Fare Revenue</th>
</tr>
</thead>
<tbody>
<tr>
<td>Change</td>
<td>-63%</td>
<td>-58%</td>
<td>-58%</td>
</tr>
</tbody>
</table>

Source: City of Arlington
4. AIR QUALITY
Historical Ozone Weekly Design Values: 2015-2020
(Currently at Week 8)

2008 Standard ≤ 75 ppb (Serious by 2021)

2015 Standard ≤ 70 ppb (Marginal by 2021)

Currently here: 70 ppb, as of 4/22/2020 in week 8

A five year comparison in the changes of the yearly design value, per year, as the ozone season progresses.
Historical Ozone Cumulative Weekly Exceedances: 2018-2020

(Contactually at Week 8)

Five year comparison showing the frequency of how often the general public is exposed to unhealthy levels of ozone.
Regional Nitrogen Dioxide (NO₂) Tracking

February 2020

Week of March 29, 2020
4. NON-MOTORIZED
<table>
<thead>
<tr>
<th>Location</th>
<th>March 2019</th>
<th>March 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Denton: Denton Branch Rail Trail (S of Morse Street)</td>
<td>95</td>
<td>304</td>
</tr>
<tr>
<td>Plano: Chisholm Trail (Orlando Drive)</td>
<td>243</td>
<td>899</td>
</tr>
<tr>
<td>Fort Worth: Trinity Trails (Clearfork Food Park)</td>
<td>744</td>
<td>2,640</td>
</tr>
<tr>
<td>Dallas: Katy Trail (Fitzhugh)</td>
<td>2,740</td>
<td>4,978</td>
</tr>
</tbody>
</table>


- 219% Increase
- 270% Increase
- 255% Increase
- 82% Increase

Source: NCTCOG and City of Dallas
Daily Average Bicycle/Pedestrian Counts
Wk1 vs Wk4 March 2020

Denton: Denton Branch Rail Trail (S of Morse Street)
- Week 1: 139
- Week 4: 304

Plano: Chisholm Trail (Orlando Drive)
- Week 1: 346
- Week 4: 899

Fort Worth: Trinity Trails (Clearfork Food Park)
- Week 1: 1,063
- Week 4: 2,640

Dallas: Katy Trail (Fitzhugh)
- Week 1: 4,113
- Week 4: 4,978

118% Increase
160% Increase
148% Increase
21% Increase

Source: NCTCOG and City of Dallas
5. AIRPORT
Airport Travel – Dallas Love Field

Total Passenger Enplanements and Deplanements - March 2019 vs March 2020

1,474,480

52% Decrease

704,773

Source: Dallas Love Field Website
6. CRASH DATA
Change in Fatal Crashes by County

Change in Fatal Crashes, March 2019 vs March 2020

Source: Crash Records Information System
Note: March crash data is current as of 4/21/2020
Change in Total Crashes by County, March 2019-March 2020

Source: Crash Records Information System
Note: March crash data is current as of 4/21/2020
Change in all Crashes by County, March 2020

Change in Crashes by County – Wk1 vs Wk4

Source: Crash Records Information System
Note: March crash data is current as of 4/21/2020
CONTACT

Arash Mirzaei, P.E.
Senior Program Manager
amirzaei@nctcog.org
817-695-9261

Francisco Torres, P.E.
Data Applications Manager
ftorres@nctcog.org
(817) 608-2356

Erin Lewis
Project Management Specialist
elewis@nctcog.org
(817) 695-9163