EFFECTS OF COVID-19 ON TRANSPORTATION

Francisco Torres, P.E.
June 17, 2020

North Central Texas Council of Governments
1. Roadway
Freeway Volume, All Week

Decrease in Traffic with respect to First Week of March 2020

March week 2: -3%
March week 3: -18%
March week 4: -31%
March week 5: -33%
April week 1: -29%
April week 2: -27%
April week 3: -25%
April week 4: -32%

Source: TxDOT Dallas/TxDOTR Worth Radar Traffic Counters
<table>
<thead>
<tr>
<th>Hour</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></td>
<td>6:00 AM</td>
<td>7:00 AM</td>
<td>2:00 PM</td>
<td>7:00 PM</td>
<td>11:00 PM</td>
</tr>
<tr>
<td>01-02</td>
<td>70</td>
<td>61-62</td>
<td>61-62</td>
<td>61-62</td>
<td>61-62</td>
</tr>
</tbody>
</table>

Source: INRIX data delivered by FHWA through NPMRDS
Average Speed on Freeways by time of day

Source: INRIX data delivered by FHWA through NPMRDS
2. TRANSIT
Change in DART Weekday Ridership by Mode - Mar 2019 vs Mar 2020

- Streetcar: -9%
- Bus: -23%
- LRT: -31%
- TRE: -36%

Source: DART
### Change in DART Total Ridership by Mode - 2019 vs 2020

<table>
<thead>
<tr>
<th>Mode</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Streetcar</td>
<td>-44%</td>
</tr>
<tr>
<td>Bus</td>
<td>-56%</td>
</tr>
<tr>
<td>LRT</td>
<td>-62%</td>
</tr>
<tr>
<td>TRE</td>
<td>-76%</td>
</tr>
</tbody>
</table>

*Source: DART*
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
APRIL Transit - DCTA

DCTA Average Weekday Ridership - Mar 2019 vs Mar 2020

- **Rail:**
  - 2019: 1,599 riders
  - 2020: 236 riders
  - **85% Decrease**

- **Bus:**
  - 2019: 2,141 riders
  - 2020: 441 riders
  - **79% Decrease**

Source: DCTA and NCTCOG
MARCH. Transit - Trinity Metro

Trinity Metro Average Weekday Ridership - Mar 2019 vs Mar 2020

22% Decrease

23% Decrease

Source: Trinity Metro and NCTCOG

Note: Data is based on raw numbers and does not necessarily represent final published numbers.
APRIL Transit - Trinity Metro

Trinity Metro Average Weekday Ridership - April 2019 vs April 2020

- **Bus**: 16,966 (67% Decrease)
- **TEXRail**: 5,523 (65% 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 ridership 2019 vs 2020

February: 49%
March: 2%
April: -54%

Source: City of Arlington
4. AIR QUALITY
Regional Nitrogen Dioxide (NO$_2$) Tracking

February 2020

Week of March 29, 2020
4. NON-MOTORIZED
Daily Average Bicycle/Pedestrian Counts
March 2019 vs March 2020

<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) - 118% Increase from 139 to 304
- **Piano:** Chisholm Trail (Orlando Drive) - 160% Increase from 346 to 899
- **Fort Worth:** Trinity Trails (Clearfork Food Park) - 148% Increase from 1,063 to 2,640
- **Dallas:** Katy Trail (Fitzhugh) - 21% Increase from 4,113 to 4,978

Source: NCTCOG and City of Dallas
5. AIRPORTS
March Airport Travel Passengers

<table>
<thead>
<tr>
<th>March 2019</th>
<th>March 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Love Field</td>
<td>1,474,480</td>
</tr>
<tr>
<td>DFWIA</td>
<td>6,104,021</td>
</tr>
<tr>
<td></td>
<td>704,773</td>
</tr>
<tr>
<td></td>
<td>3,327,669</td>
</tr>
</tbody>
</table>

52% Decrease
45% Decrease

Source: Dallas Love Field Website and DFWIA data
April Airport Travel Passengers

April 2019

Love Field: 1,356,020 (95% Decrease)

DFWIA: 5,987,164 (92% Decrease)

April 2020

Love Field: 71,740

DFWIA: 483,713

Source: Dallas Love Field Website and DFWIA data
6. CRASH DATA
Change in Vehicle Accidents

<table>
<thead>
<tr>
<th></th>
<th>March 2019</th>
<th>March 2020</th>
<th>April 2019</th>
<th>April 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10,643</td>
<td>10,403</td>
<td>8,614</td>
<td>5,435</td>
</tr>
</tbody>
</table>

Decrease 19% Decrease 28%

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

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

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