2020 INRIX Global Traffic Scorecard and latest travel trends

Washington State Transportation Commission
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Global Traffic Scorecard - Background

• 14th annual traffic scorecard

• Ranked and analyzed congestion in 1000 cities worldwide
  • Commuting behaviors and trends throughout COVID-19
  • Economic impact of lack of congestion to drivers and cities
  • Urban city mobility behaviors and trends

• Incorporated vehicle-miles traveled & collision data
Global Traffic Scorecard - Results

A big study using big data

The global pandemic, and related government shutdowns, had dramatic and varying impacts on how much people drove in 2020.

<table>
<thead>
<tr>
<th>Urban Area</th>
<th>Impact Rank (2019 Rank)</th>
<th>Hours Lost in Congestion (2020 Rank)</th>
<th>Year-Over-Year Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bogota</td>
<td>1 (1)</td>
<td>133 (5)</td>
<td>-21%</td>
</tr>
<tr>
<td>Bucharest</td>
<td>2 (-)</td>
<td>134 (3)</td>
<td>-</td>
</tr>
<tr>
<td>New York City NY</td>
<td>3 (14)</td>
<td>100 (3)</td>
<td>-28%</td>
</tr>
<tr>
<td>Moscow</td>
<td>4 (17)</td>
<td>100 (4)</td>
<td>-22%</td>
</tr>
<tr>
<td>Philadelphia PA</td>
<td>5 (12)</td>
<td>94 (5)</td>
<td>-34%</td>
</tr>
<tr>
<td>Paris</td>
<td>6 (7)</td>
<td>88 (7)</td>
<td>-47%</td>
</tr>
<tr>
<td>Chicago IL</td>
<td>7 (10)</td>
<td>84 (10)</td>
<td>-48%</td>
</tr>
<tr>
<td>Quito</td>
<td>8 (18)</td>
<td>87 (9)</td>
<td>-60%</td>
</tr>
<tr>
<td>Zagreb</td>
<td>9 (-)</td>
<td>93 (6)</td>
<td>-</td>
</tr>
<tr>
<td>Cali</td>
<td>10 (28)</td>
<td>81 (13)</td>
<td>+14%</td>
</tr>
</tbody>
</table>
## Washington State Results

<table>
<thead>
<tr>
<th>City</th>
<th>US Rank</th>
<th>Global</th>
<th>Hours Lost</th>
<th>VMT %</th>
<th>Collisions %</th>
<th>Peak Speeds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seattle</td>
<td>15</td>
<td>130</td>
<td>25</td>
<td>-24%</td>
<td>-35%</td>
<td>25mph to 37mph</td>
</tr>
<tr>
<td>Tacoma</td>
<td>65</td>
<td>384</td>
<td>13</td>
<td>-22%</td>
<td>-10%</td>
<td>31mph to 34mph</td>
</tr>
<tr>
<td>Spokane</td>
<td>175</td>
<td>792</td>
<td>3</td>
<td>-22%</td>
<td>-10%</td>
<td>33mph to 38mph</td>
</tr>
</tbody>
</table>
Seattle Results

15th in the U.S.

Overview
- "15": Most congested city in the United States
- "130": Most congested city in the world
- "25": Hours lost in congestion
- "365.58": Cost of congestion per driver
- "-24": Change in delays
- "-35": Change in collisions

Year-Over-Year Speed Changes

Peak Speeds
- The busiest times of the morning and afternoon commute.

<table>
<thead>
<tr>
<th>Year</th>
<th>2020</th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
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</table>

Off Peak Speeds
- The busiest times between the morning and afternoon commute periods.

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<tr>
<th>Year</th>
<th>2020</th>
<th>2019</th>
<th>2018</th>
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Download the INRIX 2020 Traffic Scorecard Report

What you get:
- Global ranking and analysis of 300+ cities in 30 countries
- Impact of COVID-19 on transportation as usual travel trends change
- Cost savings to drivers city and country due to COVID-19 travel restrictions
Passenger Vehicle Miles Traveled
National, Statewide, Seattle MSA – Seasonally Adjusted

Normalized Daily VMT; US, Washington State, Seattle MSA

- United States
- Washington
- Seattle, WA
Daily Peak Passenger Vehicle Miles Traveled

Seattle Metro – Seasonally Adjusted

Normalized Weekday Peak VMT; Seattle MSA

AM Peak  PM Peak
Transit Ridership Hasn’t Returned

Weekday Transit Ridership Change vs 2019 – WSDOT Data

Weekday Transit Ridership Change; WSDOT; w/holidays

- 7/3/2020, 0.72
- 9/7/2020, 0.62
- 11/26/2020, 0.53
- 12/25/2020, 0.55

King County Metro
Sound Transit
AM Peak Trips in April 2021

Normalized Weekday AM Peak Trips, Seasonally-Adjusted, % of Pre-COVID; by Metro

- Large Metro (>3M Pop)
Traffic Signal Data Reveals Changing Commutes & Delay Patterns

- Nationally & Washington State:
  - Mid-day crossings exceed AM Peak
  - Gradual increase throughout the day versus two peaks

- Washington State
  - 7.3% of typical trip is stopped at signals (6.8% national average)
  - 1.25 minutes per trip spent in delay at signals (1.15 national average)
  - 4.5 signals traversed per trip (4.1 national average)
Downtown Trips Lag Metro Area Recovery

Downtowns have re-emerged slower than their suburban/rural counterparts

YoY February Trips; Regional & Downtown (Feb '21 vs Feb '20)
Downtown Trips in June 2021

Downtown Seattle Trips Still Lag Downtown Bellevue

-30%

-19%
Downtown Seattle Trip Origins & Re-Emergence

April 2020 vs Sept 2020
What to watch for

Measure – Manage - Report

• Expect volumes and congestion to fully return in one to two years
• Congestion will appear rapidly in places
• While teleworking will remain significantly higher than pre-COVID levels – Congestion will eventually return to previous levels
  ➢ Latent demand will backfill averted trips on busiest routes
• Increased teleworking will promote peak-spreading
• Traffic patterns will not likely be the same