

ACES Research Report October 2020

Puget Sound Travel Trends

Motorways and Shared-Ride Services form Foundation of Initial Recovery



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The Seattle Times

A number of projects, such as the I-405 bus-rapid transit proposal, have gone into hibernation since the COVID-19 recession, until financial shortages are better known and the Sound Transit board sets new schedule goals. The agency predicts a \$1 billion gap in 2021, and at least \$7 billion in tax-revenue shortfalls through 2041.

Lost ridership is arguably a greater crisis than money. Sound Transit's bus and train use is down 80% from a year ago, while King County Metro ridership declined by 65%, as the pandemic continues to reduce commute trips. Whether people return to mass transit, and how soon, remains unclear.

However, Amazon last month announced plans to expand its workforce in Bellevue by 2025, and Sound Transit last week said it picked a developer for a \$500 million project that includes offices, retail and housing adjacent to a light-rail operations and maintenance facility under construction there.

The Seattle Times







outh Jackson Street, looking east from Pioneer Square, was bustling with cars, buses, a streetcar and pedestrians on July 15. (Alan Berner / The Seattle Times)

See how Seattle-area commutes have changed over the years — including the impact of COVID-19

Cars and trucks are roaring back onto Puget Sound-area highways, after coronavirus kept people home earlier in 2020. This could mean a return to the hellacious traffic delays of the 2010s, unless people shake up their lifestyles by telecommuting or reducing driving. Here's a look at pre-pandemic commute habits and travel times, and how travel has changed this year. The 2018 data referenced here is the most recent available.

By Seattle Times staff

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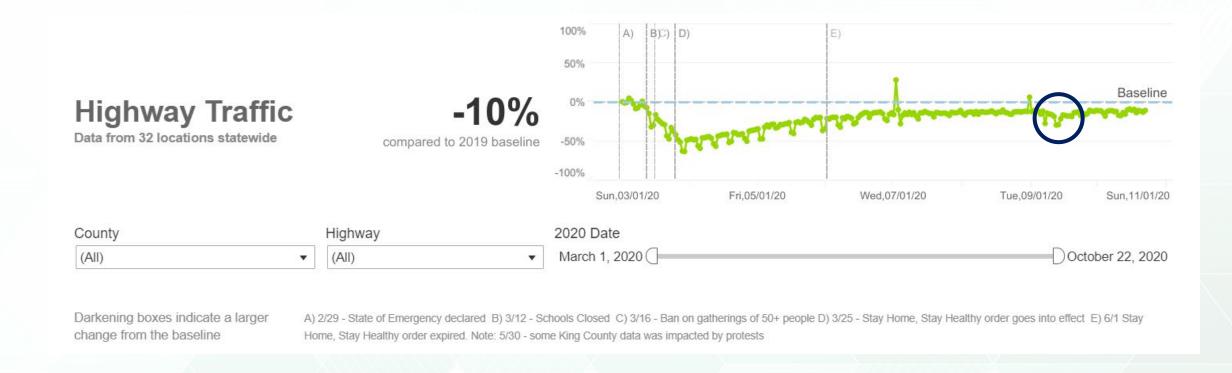


Traffic Lab is a Seattle Times project that digs into the region's thorny transportation issues, spotlights promising approaches to easing gridlock, and helps readers find the best ways to get around. It is funded with the help of community sponsors Alaska Airlines, Kemper Development Co., Madrona Venture Group, NHL Seattle, PEMCO Mutual Insurance Company and Seattle Children's hospital. Seattle Times editors and reporters operate independently of our funders and maintain editorial control over Traffic Lab content.



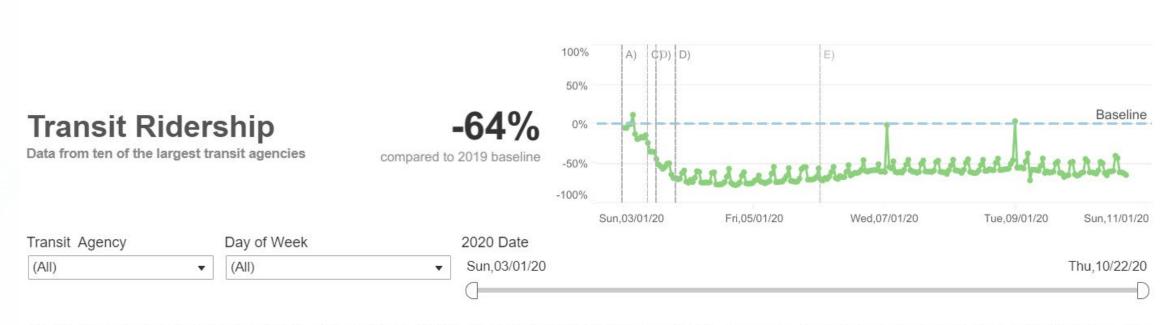
Highway Traffic Recovery





Transit Ridership Recovery?





A) 2/29 - State of Emergency declared B) 3/12 - Schools Closed C) 3/16 - Ban on gatherings of 50+ people D) 3/25 - Stay Home, Stay Healthy order goes into effect E) 6/1 Stay Home, Stay Healthy order expired.

People Choosing Highways



HIGHWAY TRAFFIC -10%

TOLL LANES & BRIDGES -36%

FERRIES -38%

TRANSIT RIDERSHIP -64%

PASSENGER RAIL -87%

https://www.wsdot.wa.gov/about/covid-19-transportation-report/
DATA THROUGH Oct 22, 2020



Eastside Motorway Volumes



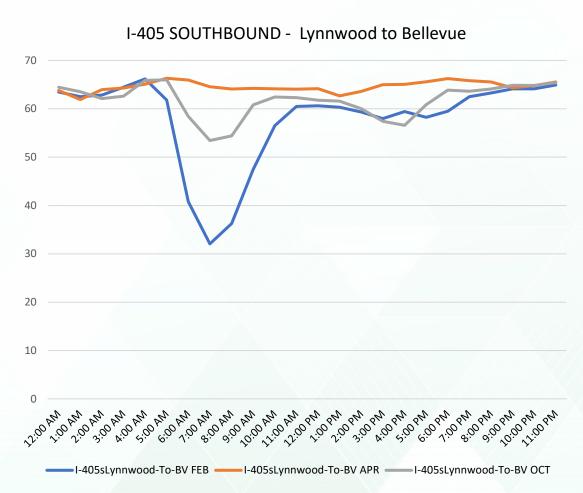
Highway	County	Traffic count location	Tue, 10/13/20	Wed, 10/14/20	Thu, 10/15/20	Fri, 10/16/20	Sat, 10/17/20	Sun, 10/18/20	Mon, 10/19/20	Tue, 10/20/20	Wed, 10/21/20	Thu, 10/22/20
167	King	SR 167 at Kent (196th)	-9%	-2%	-2%	1%	-7%	-8%	-6%	-3%	-9%	-4%
105	King	I-405 at Tukwila (Longacres)	-20%	-13%	-11%	-12%	-13%	-17%	-15%	-12%	-17%	-14%
		I-405 at Renton (37th)	-16%	-12%	-9%	-8%	-11%	-18%	-12%	-10%	-14%	-11%
		I-405 at Bellevue (NE 8th Street)	-20%	-14%	-9%	-13%	-14%	-21%	-16%	-14%	-17%	-14%
		I-405 at Kirkland (NE 132nd Street)	-21%	-16%	-15%	-17%	-14%	-20%	-18%	-16%	-19%	-16%
520	King	SR 520 at SR 520 Floating Bridge	-50%	-46%	-44%	-40%	-31%	-39%	-50%	-48%	-49%	-48%
NTERSTATE 90	King	I-90 at I-90 Floating Bridge	-34%	-29%	-29%	-29%	-22%	-30%	-33%	-31%	-36%	-32%
		I-90 at West of Bandera	-8%	8%	19%	8%	14%	0%	11%	14%	7%	24%

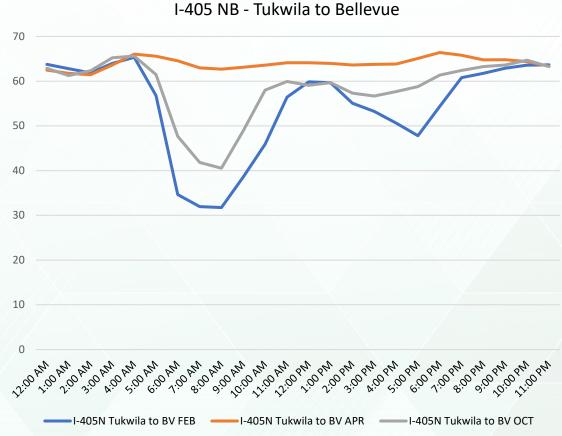




into Bellevue

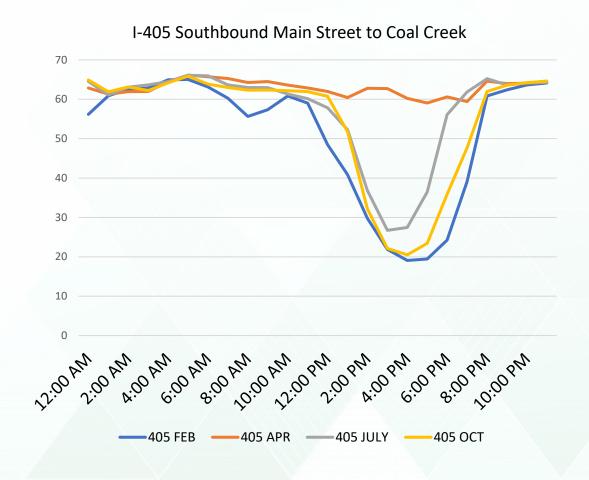


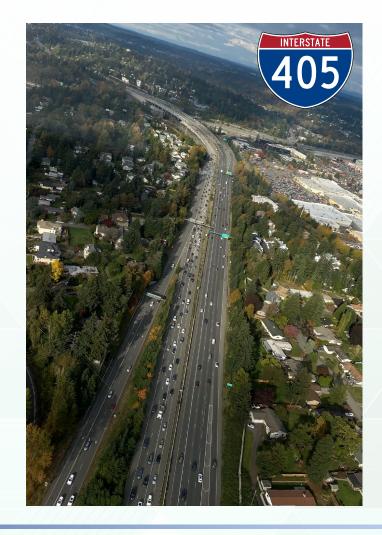




Bellevue's Southbound Slog is Back

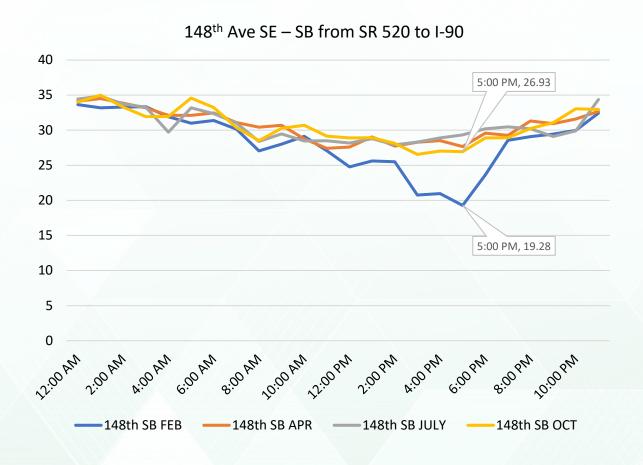






Bellevue's Arterial Congestion







Regional CBD Trips



Month Compared to February	Downtown Bellevue	Downtown Seattle
April	-80%	-86%
October	-50%	-71%



Congestion Returns on the Eastside

- I-405 SB between Main St and Coal Ck Parkway
 - Volume (traffic counts) remains down 12-15%
 - Volumes recovered quickly from late-March and April fall-off of 40 to 70%
 - Congestion has returned in the usual locations
 - Bellevue neighborhoods remain at risk due to diversion
- I-405 SB in Kirkland is MORE congested in the middle of the day
 - Auxiliary lanes were removed during toll lane construction (and more will be removed in future projects), increasing crash risk and reducing efficiency of the motorway, especially when toll lanes are priced but underutilized
- Cross-Lake volumes remains depressed while transit ridership has stagnated



Seattle CBD Trips





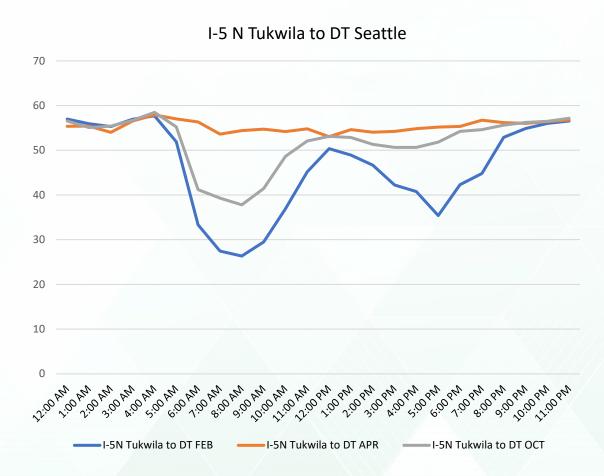
City	FEB	APRIL	ОСТ	
Seattle	54%	58%	56%	
Bellevue	6%	3%	4%	
Renton	2%	2%	2%	
Kirkland	2%	1%	1%	
Sammamish	2%	1%	1%	
Issaquah	2%	1%	1%	
Mercer Island	2%	2%	2%	
Redmond	2%	0%	1%	
Tacoma	2%	2%	1%	
SeaTac	1%	1%	2%	

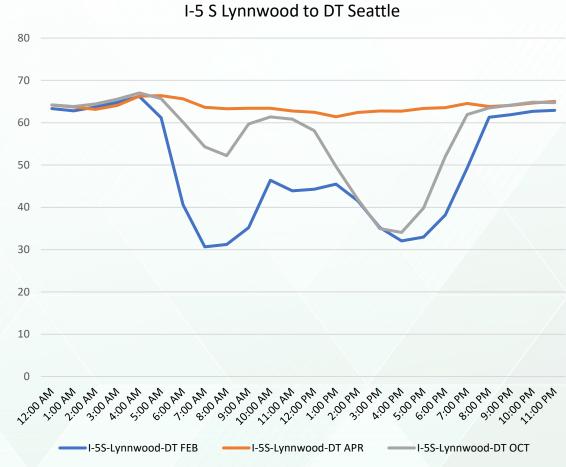
Trips into Downtown				
Seattle Compared to				
Period Before				
Government Orders				
APRIL	- 86%			
ОСТ	- 71%			



into Seattle







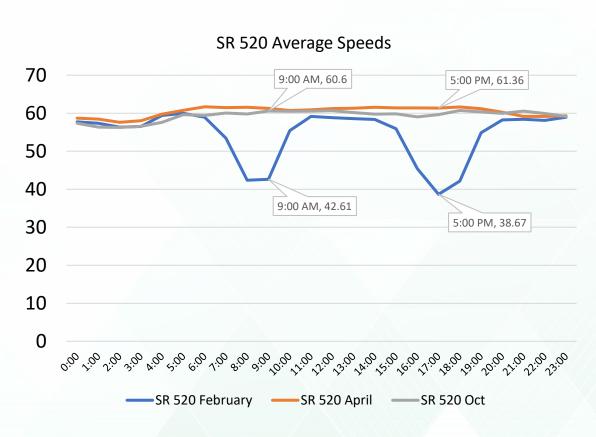






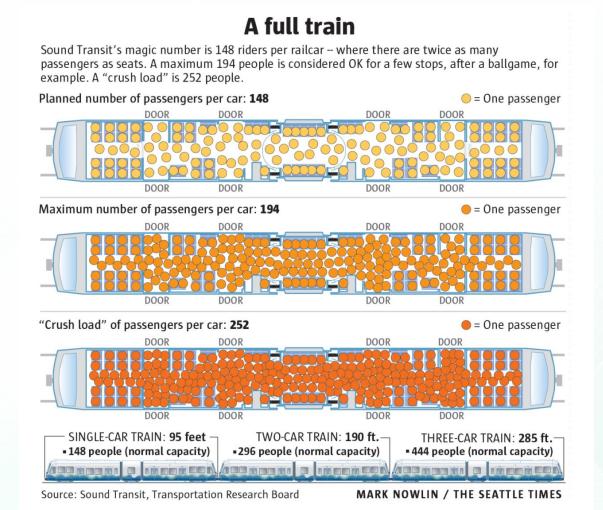
520 Bridges into Seattle







Light Rail Service Impacts and Solutions



- "Crush loads" and even planned normal loads on public transit violate government mandates regarding physical ("social") distancing
- Light Rail trains have reached "crush load" numerous times since early 2016, according to the Seattle Times
- 50% of "crush load" is 126 passengers; a "virus-safe" railcar can only carry 60 to 80 passengers with physical distancing measures in place
- Doubling the number of railcars in service is nearly impossible without lead time for railcar acquisition, typically several years

New Mobility Can Meet Peoples' Needs

Originally published August 8, 2016 at 6:00 am | Updated January 18, 2017 at 10:37 am



■ 1 of 2 | People ride the southbound Sound Transit Link light-rail line from the International District/Chinatown Station to the Stadium... (Lindsey Wasson/The Seattle Times) More ∨

Sound Transit trains are suddenly filling 40 percent of the time at rush hour, causing some rider grumbling and a closer look at adding capacity.

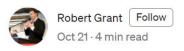
cruise



Diversity and Innovation

- Huge opportunity to launch safe, individualized, on-demand, electricpowered shuttle services
- The outdated fixed-route, fixedschedule model cannot support new trends in midday travel
- Transforming Park & Ride facilities into Mobility Marketplaces can create some demand for transit but primary benefit will be sustainable hubs for EV charging and driver comfort stations

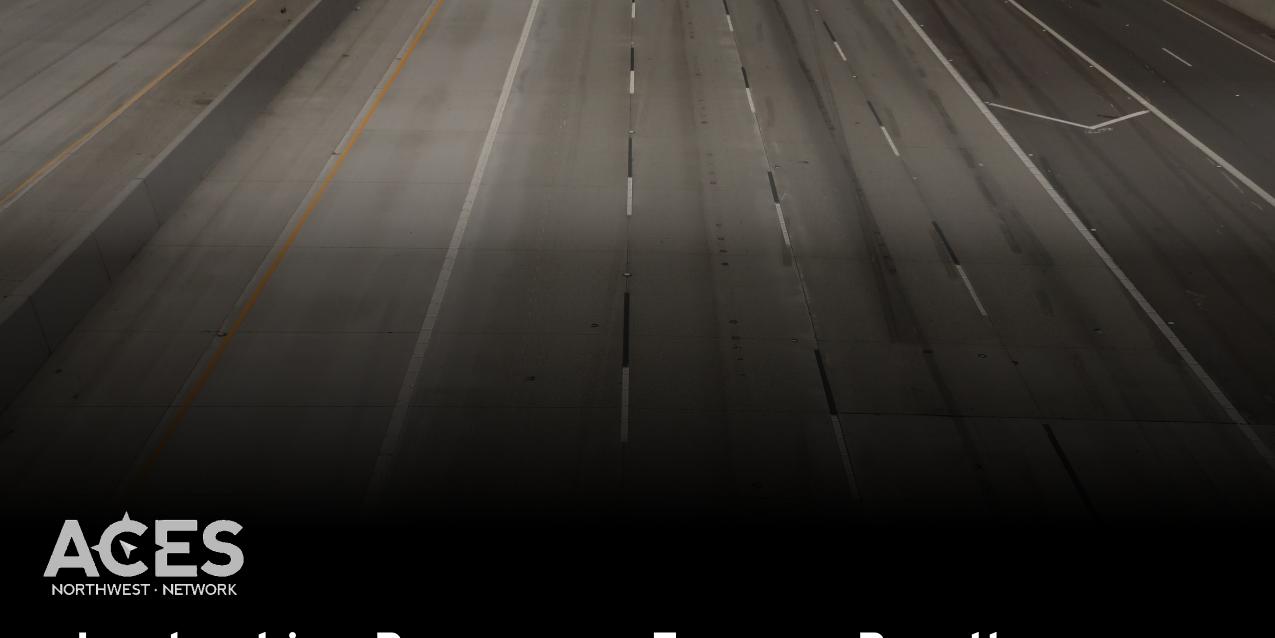
Sharing a Better Future cruise











► Leadership ► Resources ► Energy ► Results