

COVID-19 Travel Reporting

Justin Belk, PE – Integrated Corridor Operations Engineer
WSDOT HQ Traffic Operations

July 2, 2020

WSDOT Overview

6 Regions

with a WSDOT TMC in each

Many Divisions

Active Transportation,
Ferries, Freight, Aviation,
Passenger Rail, Tolling, etc.

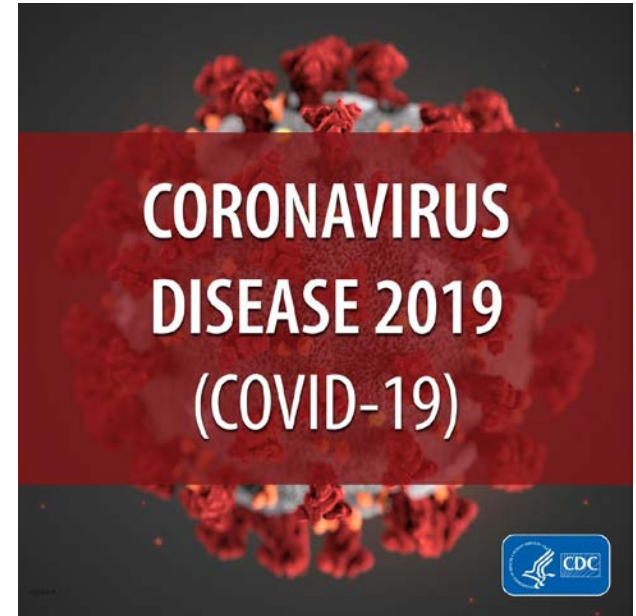
Outside Partners

Transit and local agencies



COVID-19 in Washington

- January 21 – First COVID-19 case identified in Washington state
- February 29 – Governor declares state of emergency
- March 12 – Schools close
- March 16 – First WSDOT daily travel report
- March 25 – Stay Home, Stay Healthy



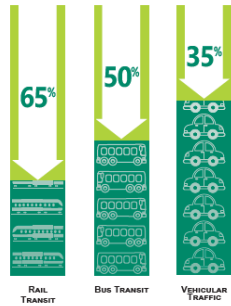
Getting data

CHANGE IN TRAVEL IN METROPOLITAN AREAS RELATIVE TO PRE-COVID-19 CONDITIONS

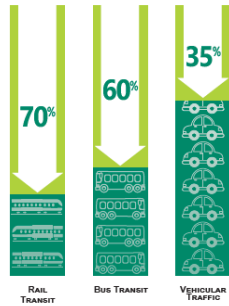
THIRD WEEK OF MARCH: PRIOR TO THE GOVERNOR'S "STAY HOME, STAY HEALTHY" ORDER



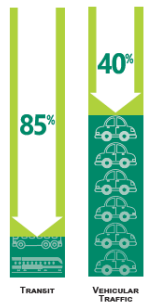
NEW YORK-NEWARK



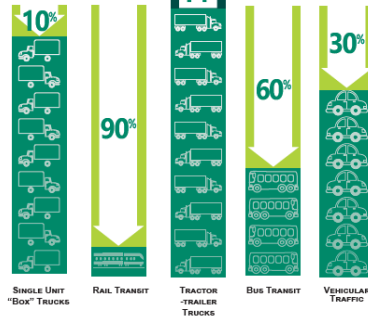
SEATTLE



SAN FRANCISCO*



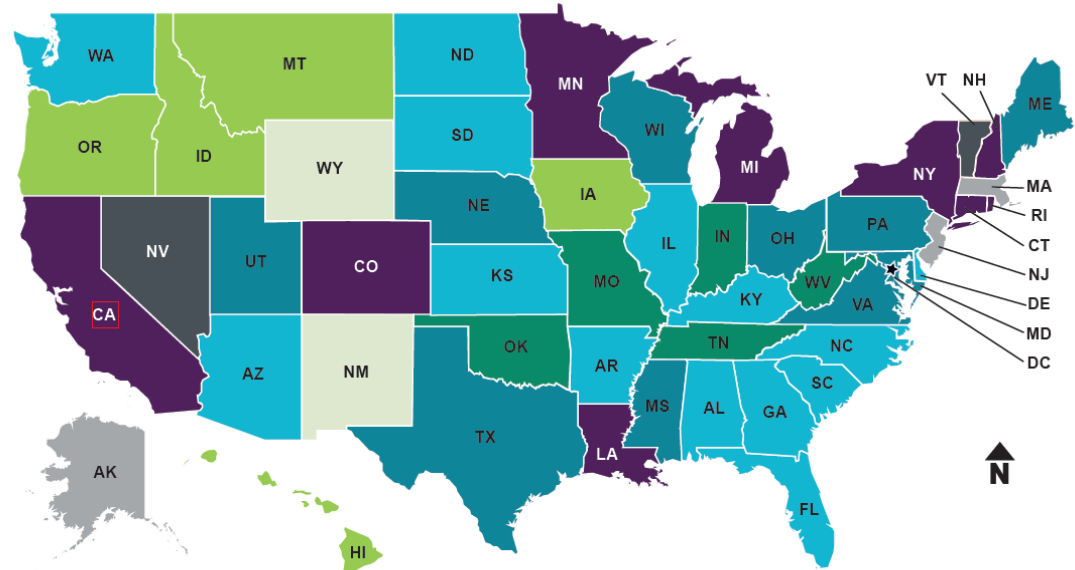
BALTIMORE/ WASHINGTON D.C.



*AREA UNDER SHELTER-IN-PLACE ORDER

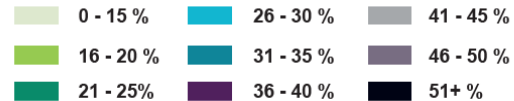
CHANGE IN VEHICLE TRAVEL RELATIVE TO PRE-COVID-19 CONDITIONS

PRIOR TO THE GOVERNOR'S "STAY HOME, STAY HEALTHY" ORDER (MARCH 20, 2020)



PERCENT DECREASE FROM PRE-COVID-19 WEEKDAY CONDITIONS

Stay at home order issued



STATE TRAVEL REDUCTION RANK:



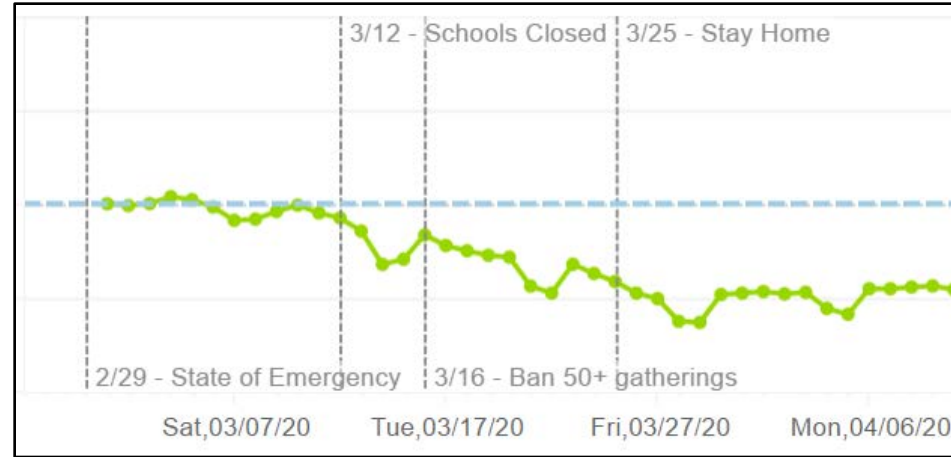
29% travel reduction

SOURCE DATA IS A COMBINATION OF INDIVIDUAL STATE SURVEY INFO AND THIRD PARTY DATA.

Informing Decision Making

Governor making difficult decisions daily:

- Close state offices?
- Close parks, trails, recreation?
- Cancel large gatherings?
- Prohibit medium gatherings, including religious services?
- Restrict travel?



Need for high-clip info in near real-time about how people are or are not adjusting their behavior

Serving our Customers

Daily message:

- Governor and Governor's office
- WSDOT Executive Team
- WSDOT Communicators list
- JIC/EOC at Camp Murray
- Heads of state agencies
- County and local partners
- Media

Volumes		3/16/2020	3/17/2020	3/18/2020	3/19/2020
Northwest Region		Monday	Tuesday	Wednesday	Thursday
I-5	Marine View Dr (Everett)				
	Daily Total Volume	115900	109200	106900	105000
	Baseline Volume	133100	129800	134700	136700
	% Change	-13%	-16%	-21%	-23%
	AM Peak Volume	24400	23300	22500	21500
	AM Peak Baseline	29100	28300	29500	29000
	% Change	-16%	-18%	-24%	-26%
	PM Peak Volume	26400	24500	24600	24300
	PM Peak Baseline	29300	28300	29500	30100
	% Change	-10%	-13%	-17%	-19%
156th (Lynnwood)					
Daily Total Volume	156100	147600	144900	142200	
Baseline Volume	183300	184100	186800	191600	

Amtrak Cascades Daily Ridership Comparison 2020 vs. 2019				
April Ridership Summary	2020	2019	Delta	Percent Change
	Ridership	Ridership		
Week ending 4/7	462	14,018	(13,556)	-97%
Week ending 4/14	388	13,782	(13,394)	-97%
Week ending 4/21	374	15,960	(15,586)	-98%
Week ending 4/28	379	14,945	(14,566)	-97%
Week ending 4/30 (2 days)	124	4,054	(3,930)	-97%
Month Total	1,727	62,759	(61,032)	-97%

Day of Week	2020 Date	2019 Date	2020 Ridership	2019 Ridership	Delta	Percent Change
Fri.	5/1	5/3	66	2,725	(2,659)	-98%
Sat.	5/2	5/4	76	2,329	(2,253)	-97%

I-205 @ SR 14 (Near OR/WA Border)			
DATE	Monday 5/4	Tuesday 5/5	Wednesday 5/6
Daily Volume	-30%	-28%	-33%
AM Peak Hour	-35%	-31%	-24%
PM Peak Hour	-25%	-26%	-36%
R			

I-5 @ SR 14 (Near OR/WA Border)			
DATE	Monday 5/4	Tuesday 5/5	Wednesday 5/6
Daily Volume	-22%	-19%	-22%
AM Peak Hour	-19%	-12%	-12%
PM Peak Hour	-14%	-14%	-3%

WSDOT Daily Trip Performance					
March and April 2020 compared to Feb* 20					
	SR 99	SR 520	TNB	SR 167**	I-40
1-Mar	2%	-1%	7%	9%	
2-Mar	0%	-5%	0%	-9%	
3-Mar	-10%	-9%	0%	-7%	
4-Mar	-14%	-12%	1%	-3%	
5-Mar	-25%	-25%	-1%	-10%	
6-Mar	-26%	-30%	-4%	-2%	

WASHINGTON STATE FERRIES

Summary: 2020 TOTAL Ridership compared to

Route	Monday			Tuesday	
	5/6/19	5/4/20	Change	4/30/19	4/28/20
Anacortes-San Juans Subtotal	3,832	1,676	-56%	3,721	1,344
Interisland	362	196	-46%	272	222
Edmonds-Kingston	9,624	4,370	-55%	8,924	3,822
Fauntleroy-Vashon-Southworth	8,217	3,055	-63%	8,435	3,012
Mukilteo-Clinton	10,177	5,522	-46%	10,536	4,940
Port Townsend-Coupeville	1,801	700	-61%	1,634	541
Seattle-Bainbridge Island	15,680	2,792	-82%	16,363	2,583
Seattle-Bremerton	5,868	926	-84%	6,578	832
Tahlequah-Pt. Defiance	2,120	1,214	-43%	2,258	1,238
ALL ROUTES	57,681	20,451	-65%	58,721	18,534

SR 14																			
Jct. I-205 (Vancouver)	-12.83%	-17.08	-21.27%	-21.55%	-26.96%	-38.24%	-44.97%	-34.49%	-36.79%	-38.33%	-41.16%	-50.52%	-56.43%	-55.58%	-47.54%	-48.19%	-48.10%	-50.81%	-49.23%
I-205																			
Jct. SR 14 (WA/OR border)	-16.14%	-21.92%	-33.33%	-29.35%	-29.25%	-33.49%	-36.93%	-32.37%	-39.07%	-39.52%	-40.53%	-45.77%	-57.56%	-59.84%	No Data Avail	-40.71%	-40.57%	-41.55%	-43.98%
I-5																			
Clark County																			
SR 14 (WA/OR border)	-10.15%	-15.80%	-17.13%	-19.70%	-23.58%	-36.99%	-42.87%	-26.54%	-32.39%	-33.32%	-35.93%	-42.10%	-56.89%	-58.43%	-35.45%	-33.82%	-33.93%	-36.27%	-38.49%
SR 502 (Battle Ground)	-15.75%	-20.19%	-23.68%	-23.98%	-30.84%	-39.45%	-45.52%	-34.18%	-36.79%	-38.33%	-41.16%	-50.66%	-61.03%	-62.72%	-45.47%	-42.97%	-43.18%	-43.87%	-48.95%
Lewis County																			
Centralia	-13.70%	-11.42%	-15.27%	-18.53%	-27.26%	-36.25%	-43.18%	-28.62%	-36.62%	-20.23%	-38.45%	-49.76%	-60%	-63.28%	-42.53%	-37.09%	-37.17%	-40.87%	-47.87%
Thurston County																			
Tumwater Blvd.	-14%	-19%	-25%	-28%	-32%	-42%	-45%	-24%	-29%	-34%	-43%	-49%	-58%	-59%	-37%	-39%	-41%	-46%	-51%
Meridian Road (Lacey)	-13%	-18%	-22%	-26%	-27%	-37%	-41%	-31%	-35%	-38%	-46%	-50%	-62%	-61%	-47%	-46%	-44%	-47%	-48%
Lakewood	-9%	-13%	-6%	-16%	-14%	-30%	-33%	-13%	-26%	-21%	-33%	-34%	-50%	-50%	-35%	-33%	-25%	-32%	-31%
Pierce/King county line	-10%	-14%	-18%	-20%	-21%	-37%	-38%	-25%	-27%	-31%	-38%	-42%	-54%	-52%	-39%	-38%	-38%	-40%	-40%
King County																			
Federal Way (Enchanted Pkwy)	-11%	-15%	-18%	-21%	-23%	-40%	-44%	-27%	-30%	-34%	-41%	-46%	-61%	-60%	-43%	-42%	-41%	-43%	-43%
SODO (Holden)	-18%	-21%	-23%	-27%	-32%	-47%	-51%	-35%	-39%	-42%	-50%	-55%	-66%	-66%	-52%	-51%	-49%	-51%	-53%
Seattle/SLU (Boylston)	-26%	-32%	-33%	-36%	-37%	-47%	-50%	-39%	-45%	-47%	-55%	-58%	-65%	-63%	-57%	-57%	-56%	-57%	-57%
Northgate	-21%	-27%	-28%	-32%	-34%	-46%	-50%	-38%	-43%	-47%	-54%	-57%	-65%	-63%	-54%	-54%	-53%	-55%	-55%
King/Snohomish county line	-16%	-22%	-23%	-27%	-30%	-43%	-47%	-22%	-37%	-41%	-49%	-53%	-62%	-60%	-49%	-49%	-48%	-50%	-51%
Snohomish County																			
Lynnwood (156th)	-15%	-20%	-22%	-26%	-29%	-41%	-46%	-33%	-36%	-41%	-48%	-53%	-63%	-60%	-50%	-49%	-48%	-50%	-51%
Everett (Marine View Drive)	-13%	-16%	-21%	-23%	-28%	-42%	-46%	-33%	-35%	-42%	-50%	-56%	-65%	-64%	-52%	-49%	-50%	-51%	-54%
SR 167																			
Kent (196th)	-9%	-13%	-16%	-17%	-20%	-40%	-43%	-24%	-26%	-31%	-39%	-43%	-58%	-57%	-41%	-40%	-39%	-40%	-40%
I-405																			
Tukwila (Longacres)	-18%	-20%	-24%	-26%	-29%	-44%	-50%	-35%	-35%	-40%	-47%	-50%	-61%	-63%	-50%	-47%	-46%	-48%	-48%
Renton (37th)	-19%	-22%	-25%	-28%	-31%	-48%	-54%	-36%	-38%	-41%	-51%	-54%	-67%	-67%	-54%	-53%	-51%	-53%	-53%
Bellevue (NE 8th Street)	-29%	-32%	-34%	-36%	-36%	-48%	-53%	-32%	-47%	-50%	-58%	-60%	-68%	-67%	-61%	-60%	-59%	-59%	-58%
Kirkland (NE 132nd Street)	-24%	-28%	-30%	-31%	-34%	-46%	-50%	-39%	-42%	-46%	-54%	-57%	-66%	-64%	-57%	-56%	-56%	-56%	-56%
Bothell (Filbert)	-18%	-24%	-25%	-26%	-29%	-42%	-46%	-34%	-38%	-42%	-50%	-53%	-62%	-59%	-51%	-51%	-50%	-51%	-51%
SR 512																			
Pacific Ave. (SR 7)	-10%	-17%	-18%	-20%	-21%	-38%	-37%	-26%	-31%	-34%	-40%	-43%	-57%	-53%	-41%	-41%	-40%	-41%	-41%
SR 16																			
Tacoma Narrows	-13%	-21%	-23%	-26%	-26%	-39%	-39%	-31%	-36%	-38%	-48%	-49%	-61%	-57%	-46%	-47%	-46%	-47%	-47%
SR 520																			
SR 520 Floating Bridge	-51%	-58%	-59%	-61%	-61%	-59%	-59%	-66%	-69%	-72%	-77%	-77%	-74%	-69%	-77%	-78%	-77%	-78%	-76%
I-90																			
King County																			
I-90 Floating Bridge	-35%	-41%	-43%	-45%	-44%	-43%	-48%	-51%	-55%	-58%	-65%	-65%	-66%	-62%	-65%	-65%	-64%	-62%	-62%
West of Bandera	-4%	-1%	-5%	-15%	-27%	-23%	-42%	-20%	-20%	-28%	-40%	-56%	-60%	-67%					
Spokane County																			
US 2 West	-8%	-11%	-12%	-11%	-9%	-16%	-26%	-21%	-18%	-30%	-32%	-34%	-41%	-49%	-36%	-37%	-35%	-34%	-33%
Sprague	-9%	-14%	-17%	-18%	-19%	-31%	-42%	-27%	-26%	-35%	-38%	-39%	-49%	-59%	-44%	-42%	-41%	-41%	-38%
Pines Road (SR 27)	-9%	-14%	-16%	-18%	-16%	-30%	-42%	-26%	-26%	-35%	-38%	-39%	-50%	-60%	-44%	-42%	-42%	-41%	-39%
North Spokane Corridor																			
Parksmith Drive								-13%	-17%	-24%	-19%	-20%	-28%	-41%	-28%	-28%	-27%	-23%	-19%
US 195																			
16th Ave								-32%	-34%	-41%	-41%	-43%	-50%	-62%	-47%	-47%	-45%	-42%	-41%

WSDOT COVID-19 Dashboard



<https://www.wsdot.wa.gov/about/covid-19-transportation-report/>

Credits to the Transportation Safety and Systems Analysis team for development!

WSDOT COVID-19 Transportation System Performance - Multimodal Executive Summary

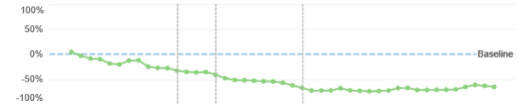
Highway Traffic
Data from 42 representative locations statewide

-43%
compared to February 2020 baseline



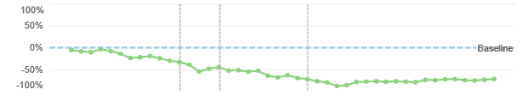
Toll Facilities
Data from all five tolled highways and bridges

-65%
compared to February 2020 baseline



Ferries Ridership
Data from all nine WSF routes

-71%
compared to 2019 baseline



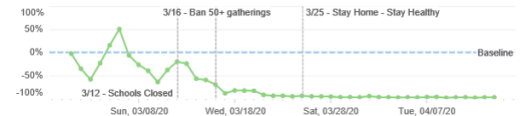
Transit Ridership
Data from nine statewide transit agencies

-78%
compared to 2019 baseline



Passenger Rail
Data from Amtrak Cascades

-97%
compared to 2019 baseline



Questions?

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