



Freight Committee Web Meeting:

Program Update and Spotlight Presentations: Using Weigh-in-Motion in Maryland & TETC Mileage Based User Fee Truck Pilot

February 25, 2021



Freight Committee Co-Chairs

David Rosenberg

Intermodal Transportation Specialist,

New York State DOT



Tom McQueen, AICP Office of Planning Georgia DOT











Participants

Agencies					
Alabama DOT	District DOT	Maryland DOT-SHA	NJTPA	Tennessee DOT	
Atlanta Regional Commission	Florida DOT	Massachusetts DOT	PANYNJ	University of Maryland CATT Lab	
Capital District Transportation Committee	Georgia DOT	New Jersey DOT	South Carolina DOT	Vermont AOT	
Connecticut DOT	Maine DOT	New York City DOT	Southwestern Pennsylvania Commission	Virginia DOT	
Delaware DOT	Maryland DOT	New York State DOT	State of Rhode Island - Division Planning	Wilmington Area Planning Council	



Agenda

Topic	Speaker	
Welcome & Introductions	David Rosenberg, Intermodal Transportation Specialist, New York State DOT	
Freight Committee Update	Marygrace Parker, Freight Director, The Eastern Transportation Coalition	
Spotlight Presentation: Using Weigh-in-Motion in Maryland	Nikola Ivanov, Director of Operations, University of Maryland CATT Lab	
Spotlight Presentation: TETC Mileage Based User Fee Truck Pilot (This presentation was not included during this meeting. It will be held as a separate web meeting for the Freight Committee)	Marygrace Parker	
Wrap Up & Upcoming Events	Marygrace Parker	



Freight Committee Update



Marygrace Parker, Freight Director The Eastern Transportation Coalition



Committee Update

Truck Parking Working Group

- Meetings held in November, December & February
- Spotlight Presentation by Penn Turnpike on Real Time Truck Parking and Emergency Notification System
- Agency Roundtables: Updates on state activities (RFPs, Studies, workshops)
- Discussion areas emerging strategies, issues (e.g., PPPs, reserved parking...)

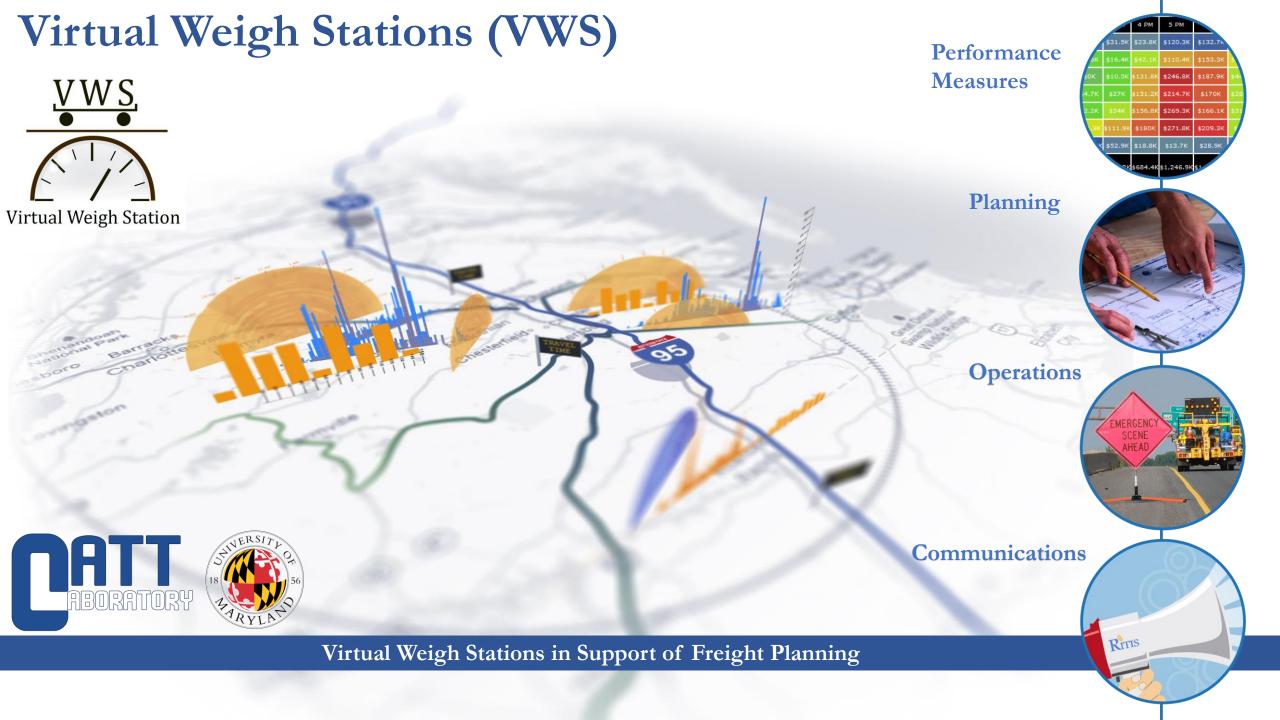
TETC TDM RFP – Solicited input from Freight Committee

- RFI released and included responses from vendors on Freight Elements
- RFP release target date April 1, 2020
 - 6 datasets including Freight



Spotlight Presentation: Using Weigh-in-Motion in Maryland

Nikola Ivanov, Director of Operations
University of Maryland CATT Lab



Road damage from one 18-wheeler is equivalent to 9,600 cars

- US Government Accountability Office



~99% of all road damage is caused by commercial vehicles



WIM vs VWIM vs VWS

Acronym soup:

- WIM Weigh in Motion
- VWIM Virtual Weigh in Motion
- VWS Virtual Weigh Station



Polling Question #1

Does your agency use "Virtual WIM" Technology for enforcement or other applications?

- Yes
- No
- I don't know



Polling Question #2

Has your agency used data pulled from WIM specifically for freight planning activities?

- Yes
- No
- I'm not sure



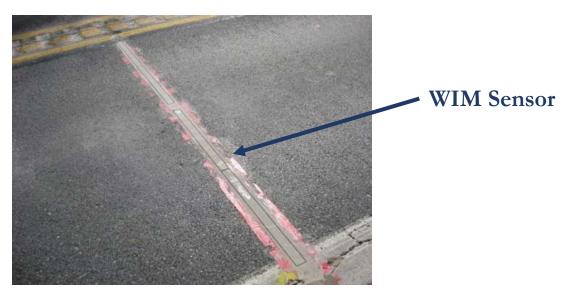
Goals of Virtual Weigh Stations





- Minimize infrastructure damage
- Improve safety
- Deploy limited resources more efficiently
- Develop understanding of patterns and behaviors
- Educate operators about safety and law requirements

Virtual Weigh Station Hardware





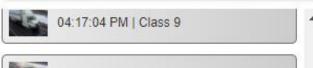


Over Height Detector

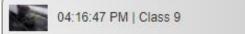


Camera and IR



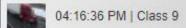


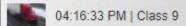












04:16:32 PM | Class 9

04:16:29 PM | Class 9

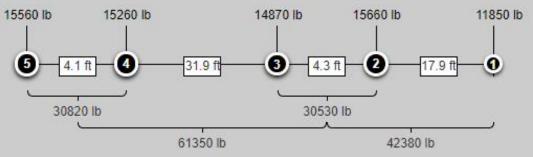
04:16:18 PM | Class 9

04:16:07 PM | Class 3

04:15:54 PM | Class 5

04:15:43 PM | Class 4





0

Lock selection to newest vehicle



04:18:55 PM | Class 9

04:18:45 PM | Class 9

04:18:42 PM | Class 9

04:18:35 PM | Class 9

04:18:21 PM | Class 9

04:17:51 PM | Class 9

04:17:24 PM | Class 9

04:17:15 PM | Class 9

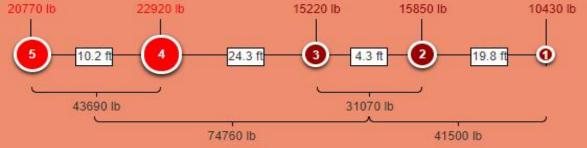
04:16:40 PM | Class 9

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04:16:34 PM | Class 9

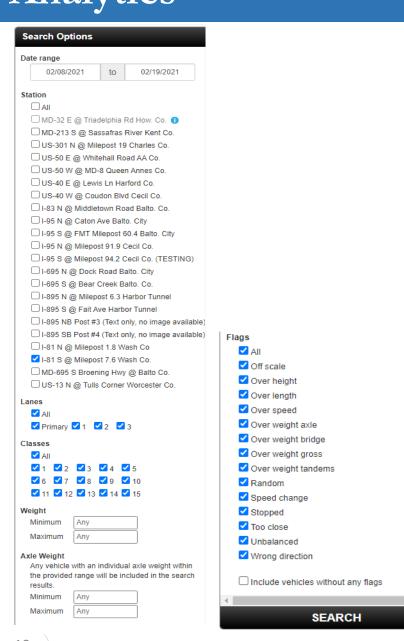
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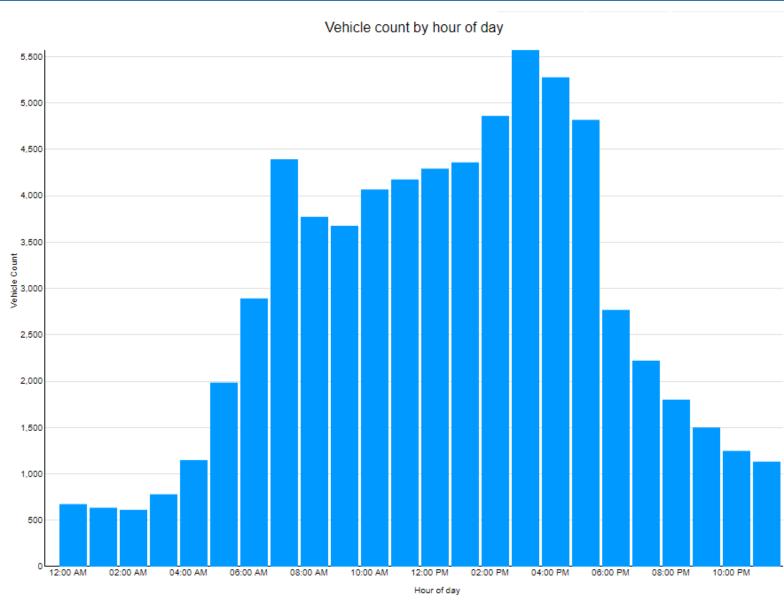






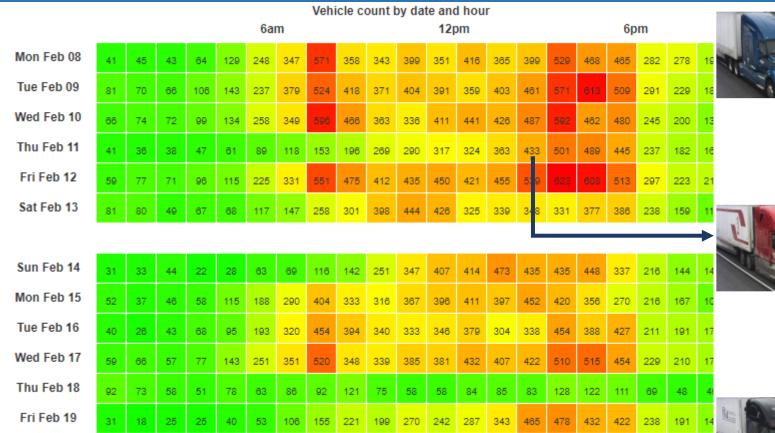
Analytics







Temporal Patterns





List of all violations per hour



Vehicle ID: 20210211142750-25-691137 Printable report Pre-populated field notice Date: 02/11/2021 2:27:50 PM

I-81 S Location: 1 Lane: Weight 0 lbs Speed: Lenath Class:

0 mph 53.5 ft

Wrong direction VIOLATION Flags:

35.1 Spacing: 11.5



Vehicle ID: 20210211142756-25-691139 Printable report Pre-populated field notice 02/11/2021 2:27:56 PM

Date: I-81 S Location:

80200 lbs Weight Speed: 62 mph Length: 59.6 ft Class:

Flags: Over weight gross, over weight bridge, over weight tandems VIOLATION

34.2

Spacing: 17.5 16.7

17 16.8 17.3



20210211142816-25-691148 Printable report Pre-populated field notice

02/11/2021 2:28:16 PM Location: I-81 S

14570 lbs Weight 21 mph Speed:

Length 20.1 ft Class:

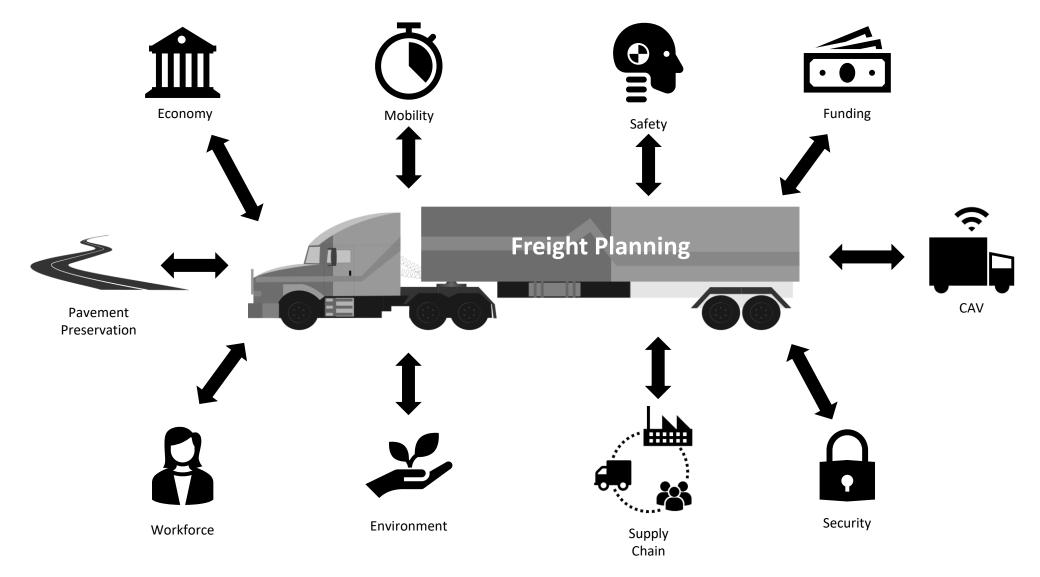
Speed change VIOLATION

5.0 3.3



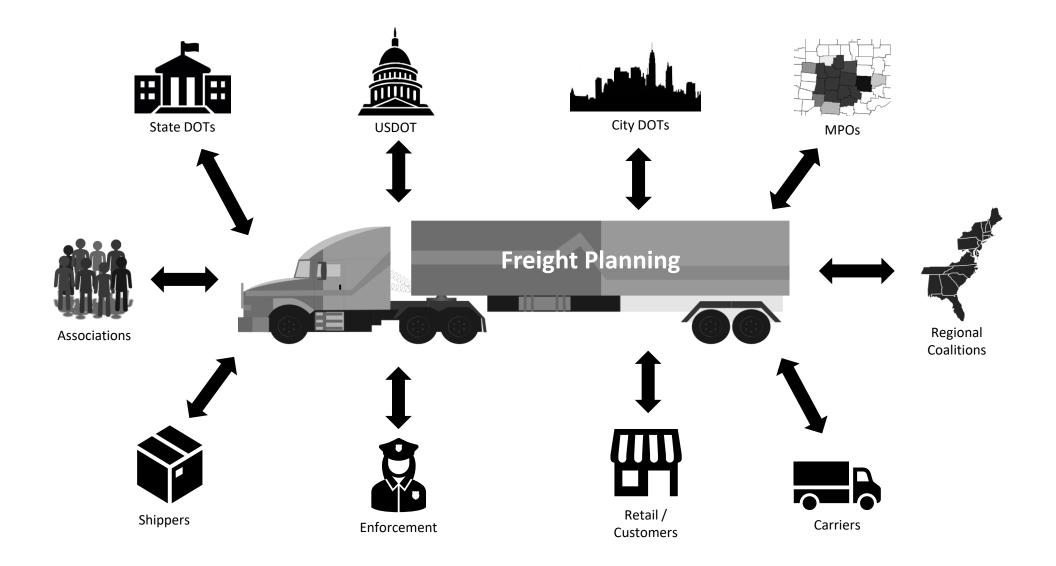
11.9

Freight Planning Context



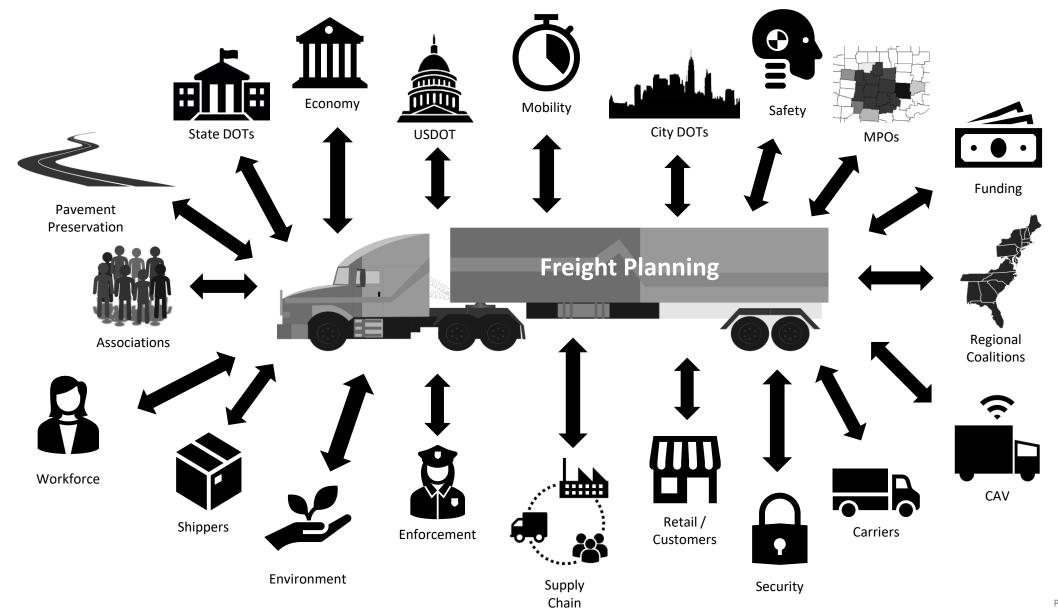


Freight Planning Stakeholders

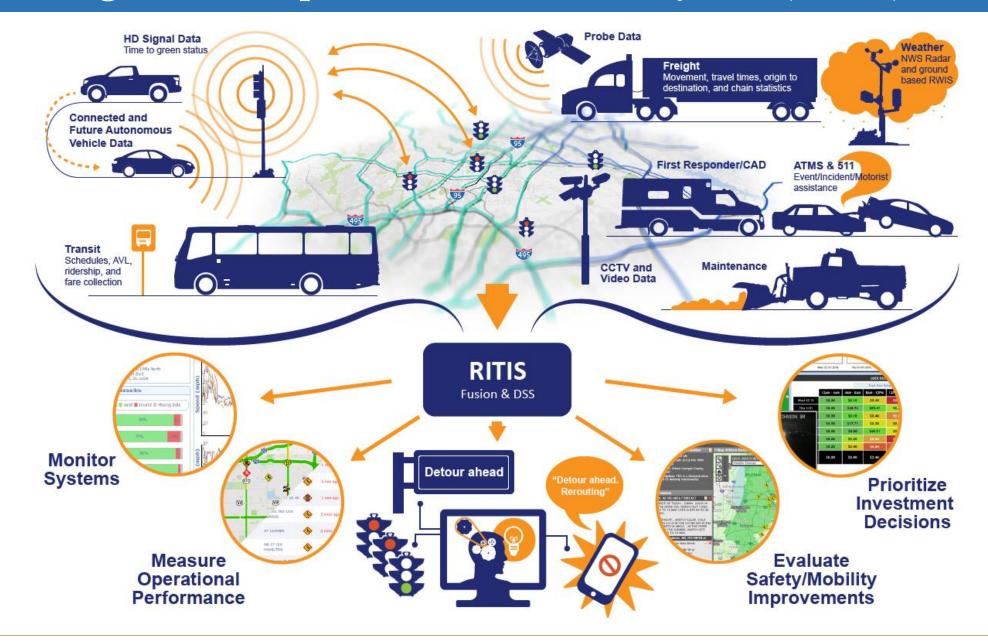




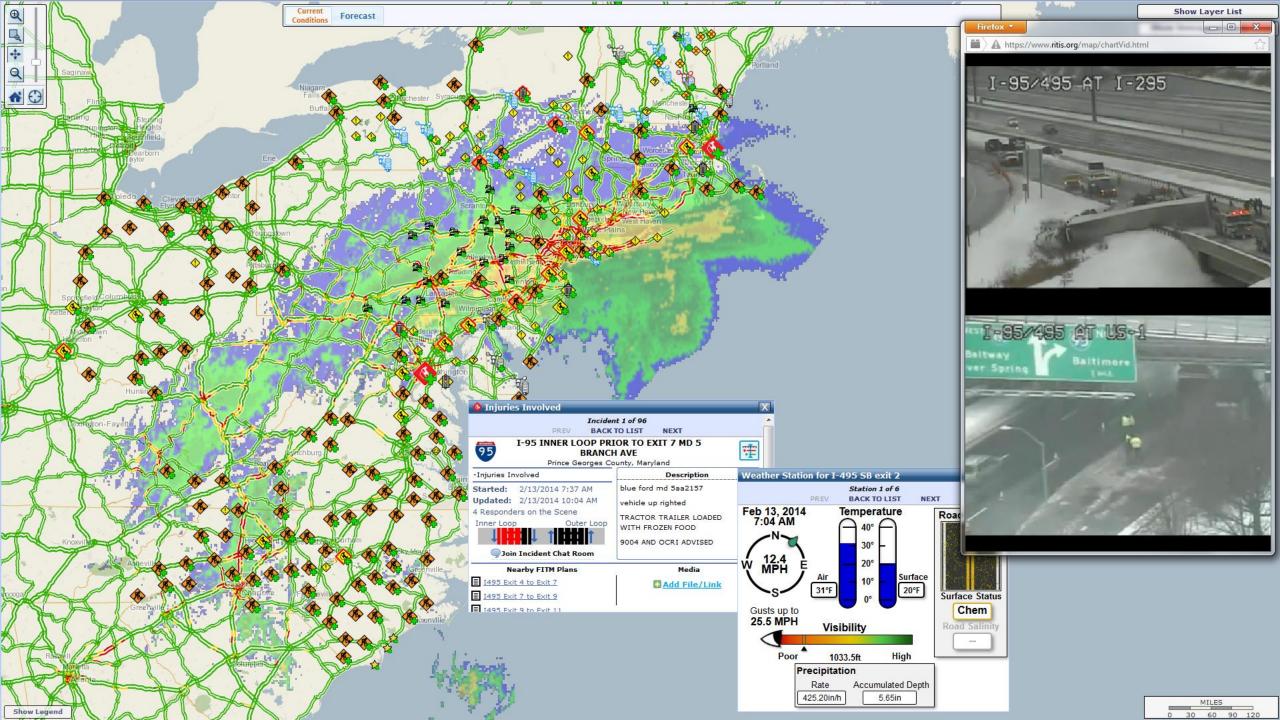
Complex Topic



Regional Integrated Transportation Information System (RITIS)







Opportunity #1

VWS Data for Freight Safety Planning



VWS Data and Crash Data



VWS Data and Crash Data





VWS Data and Crash Data



Opportunity to predict and prevent these types of incidents

20190809082020-2-1102946 Vehicle ID:

08/09/2019 8:20:20 AM Date:

US-13 N Location:

Lane:

80770 lbs Weight: Speed: 60 mph 49.8 ft Length:

Class:

Flags: Over weight gross, over weight bridge, over weight tandems, unbalanced VIOLATION

Spacing:

29.8

17.5 18.3

11.6

38 minutes later

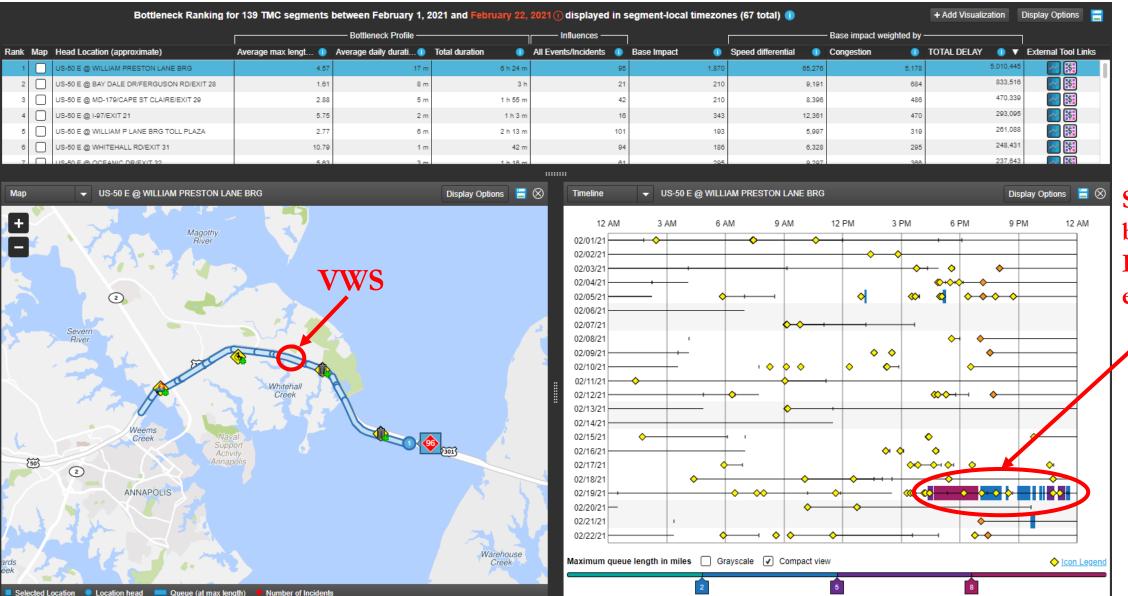
▼ Traffic management center communications

August 9, 2019 8:58:09 AM SOC (dnims) 9:30 AM



Opportunity #2

VWS Data and Freight Mobility, Economy, and Environment

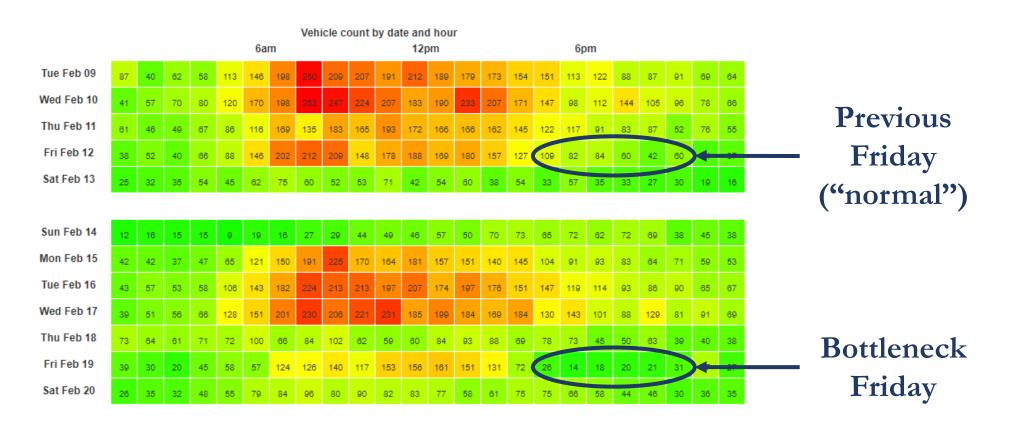


Significant bottleneck on Friday evening





PROTECTION



Who, or more importantly, WHAT was stuck in this bottleneck?







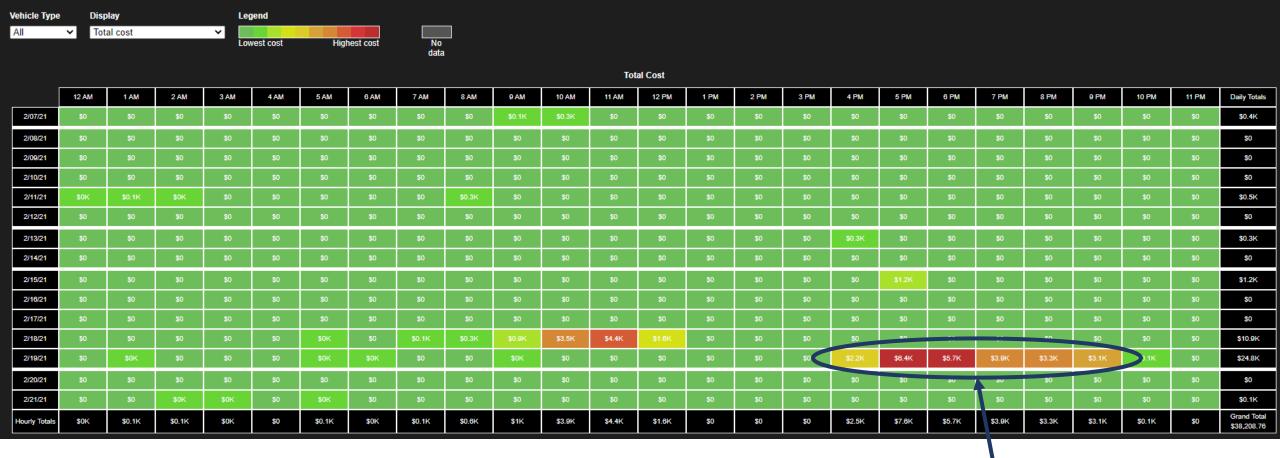


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50 L

US-50 Eastbound between Dundee Ave/Exit 40B and MD-648/Baltimore Annapolis Blvd

Sunday, February 07, 2021 to Sunday, February 21, 2021



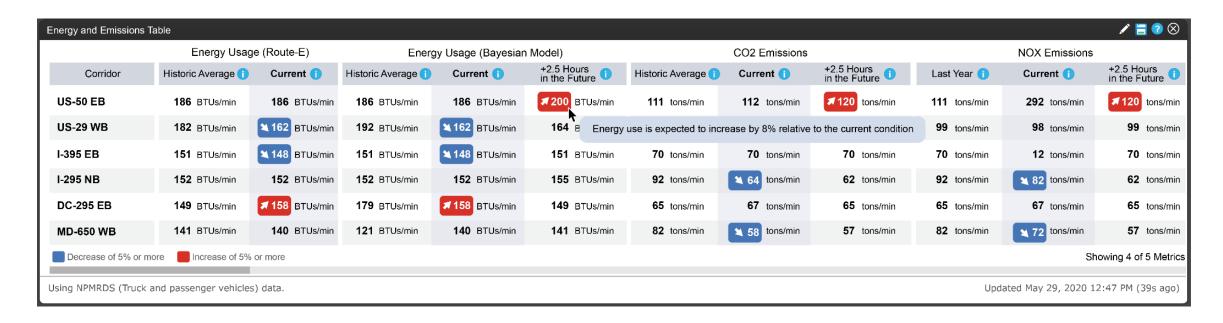
Opportunity to consider freight priority corridors/systems

Bottleneck Friday





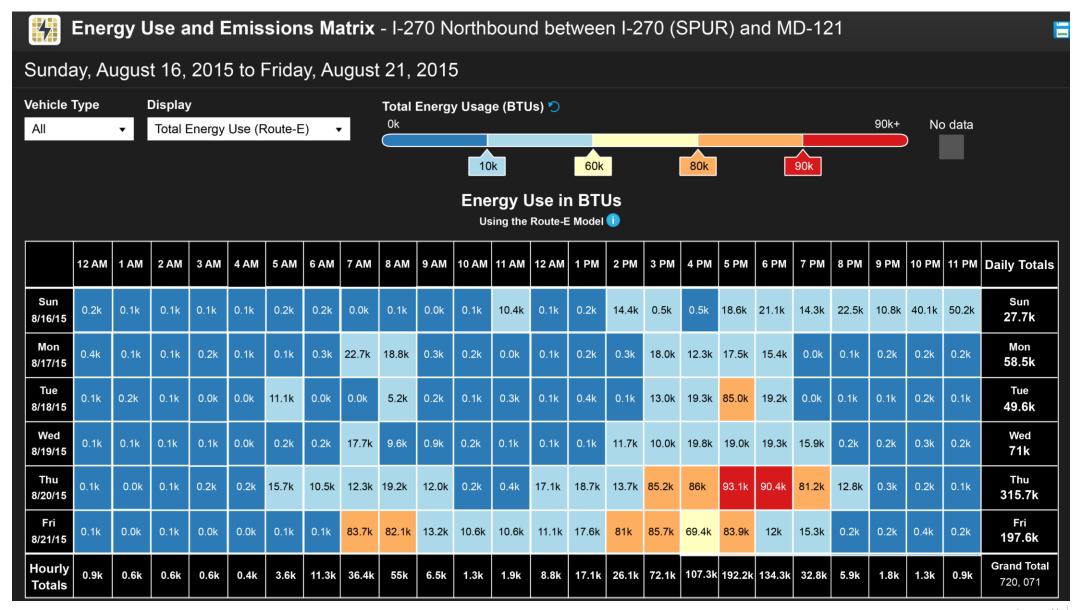
Energy Usage Patterns



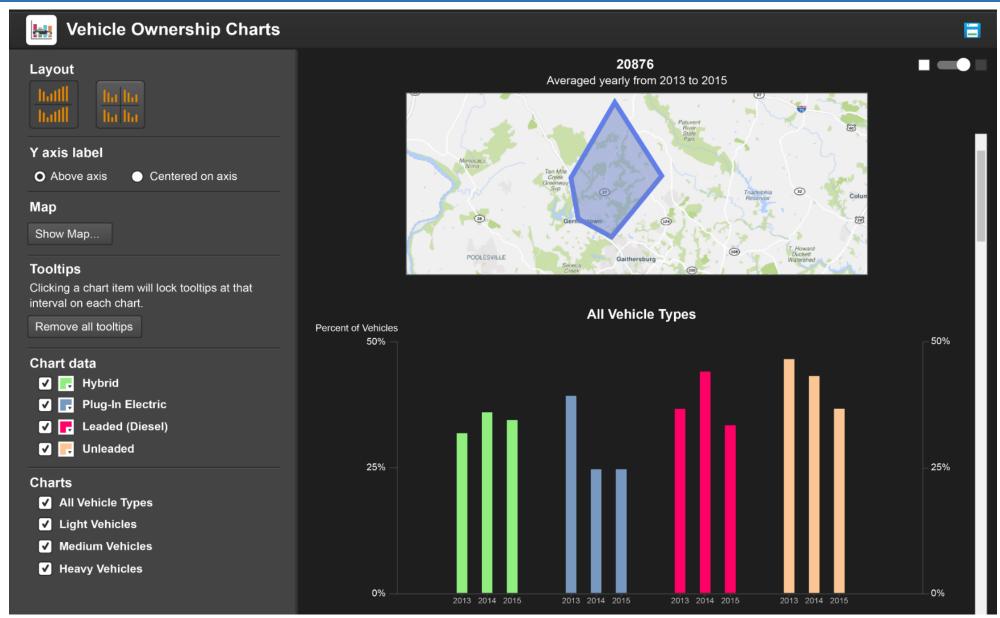
Historical, real-time, and predicted energy usage patterns



Energy Usage Patterns



Fuel Type Patterns



Opportunity #3

VWS Data and Security



VWS Data and Security



Vehicle ID: 20180813130250-4-26044 Printable report Pre-populated field notice

08/13/2018 1:02:50 PM

Location: MD-32 E

Weight: 2410 lbs Speed: 61.5 mph Length: 8.3 ft Class: 2

Siass: 2 Flags: None

Spacing: 8.3

Date:

M/t: 1.0 1.

Vehicle ID: 20180813130258-4-26045 Printable report Pre-populated field notice

08/13/2018 1:02:58 PM

ocation: MD-32 E

 Lane:
 1

 Weight:
 2500 lbs

 Speed:
 60.5 mph

 Length:
 8.1 ft

 Class:
 2

Class: 2 Flags: None



Vehicle ID: 20180813130305-4-26046 Printable report Pre-populated field notice

Date: 08/13/2018 1:03:05 PM

None

Location: MD-32 E

Weight: 3790 lbs Speed: 50.7 mph Length: 8.9 ft Class: 2

1.7 2.1

Spacing: 8.9
Axles:

Flags:

Rear axle weight significantly higher than expected for a 2015

Subaru Forester

Heavier than expected for a 2014 Toyota Corolla (no cargo visible)

EXAMPLES ONLY (not real)



Opportunity #4

Freight Movement Efficiency

(Agency Perspective & Carrier Perspective)



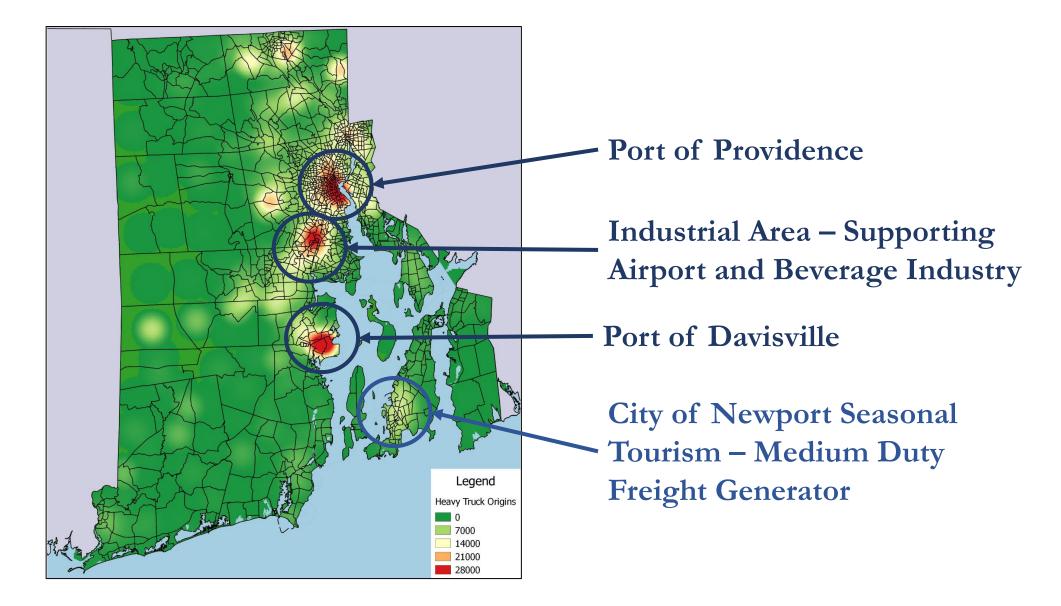
Freight Trips

Key questions:

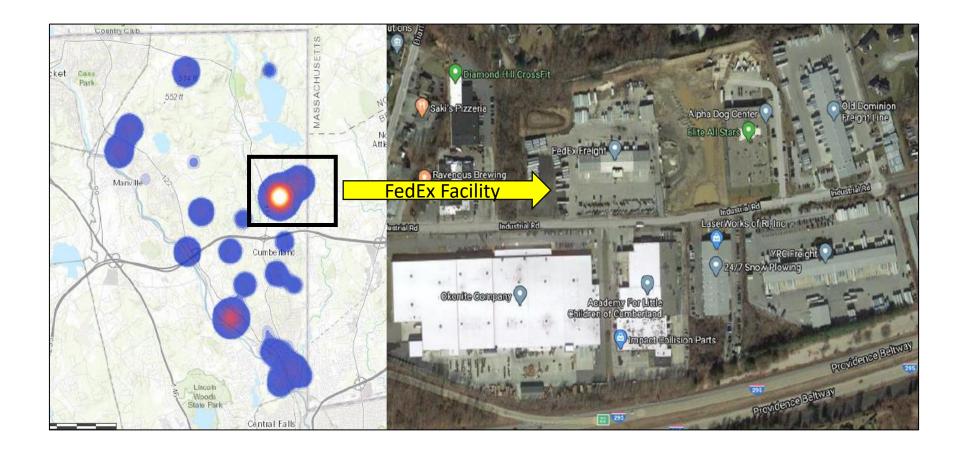
- 1. Where is freight coming from?
- 2. Where is it going?
- 3. Why?



Freight Generators



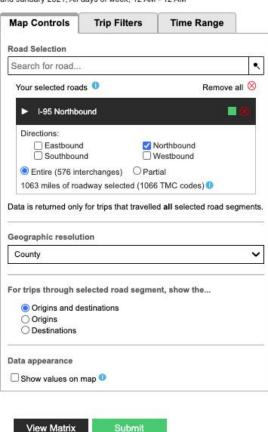
Freight Generators





Using the Rhode Island data set

I-95 Northbound; County to County; All vehicle types; Started and ended: All months 2018, July, August, September, October, November and December 2020 and January 2021, All days of week, 12 AM - 12 AM

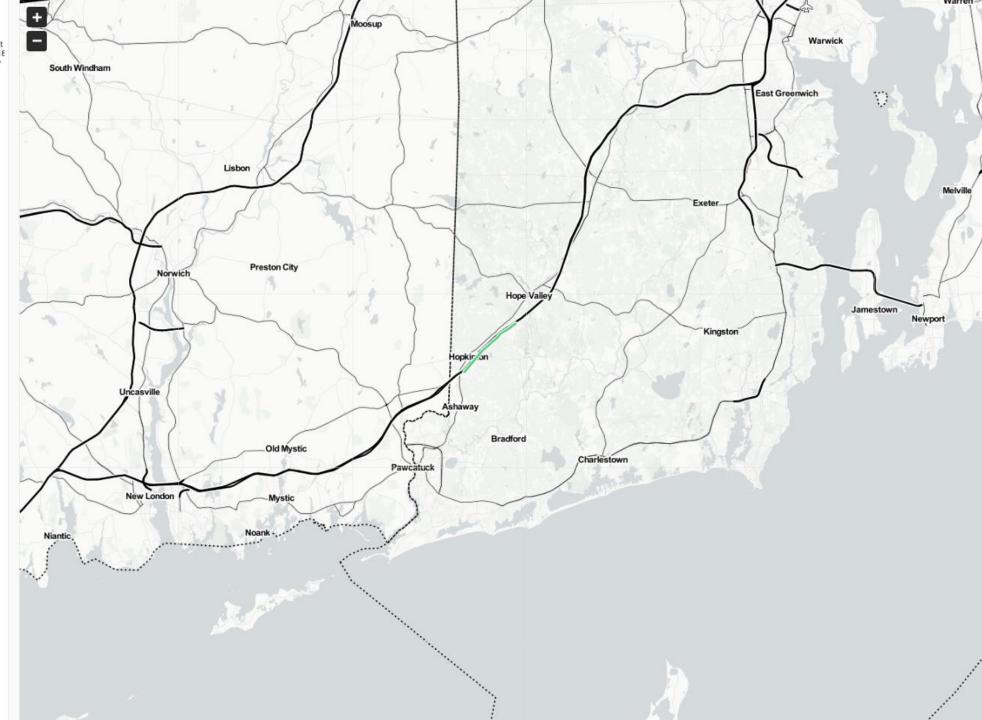




Using the Rhode Island data set I-95 Northbound between Woodville Alton Rd/Exit 2 and Woodville Alton Rd/Exit 2; Subcounty to Subcounty; Heavy vehicles; Started and ended: All months 2015 July, August, September, October, November and December 2020 and January 2021, All days of week, 12 AM - 12 AM

Map Controls	Trip Filters	Time Range	
Show vehicle type:	3		
☐ Medium vehicl	es		
✓ Heavy vehicles	3		

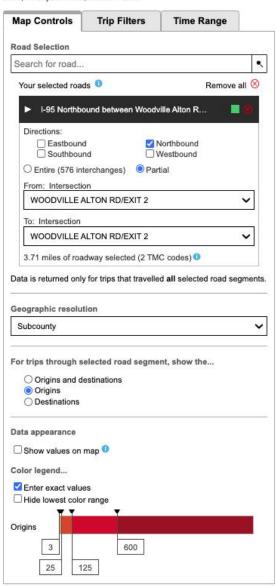
View Matrix Submit



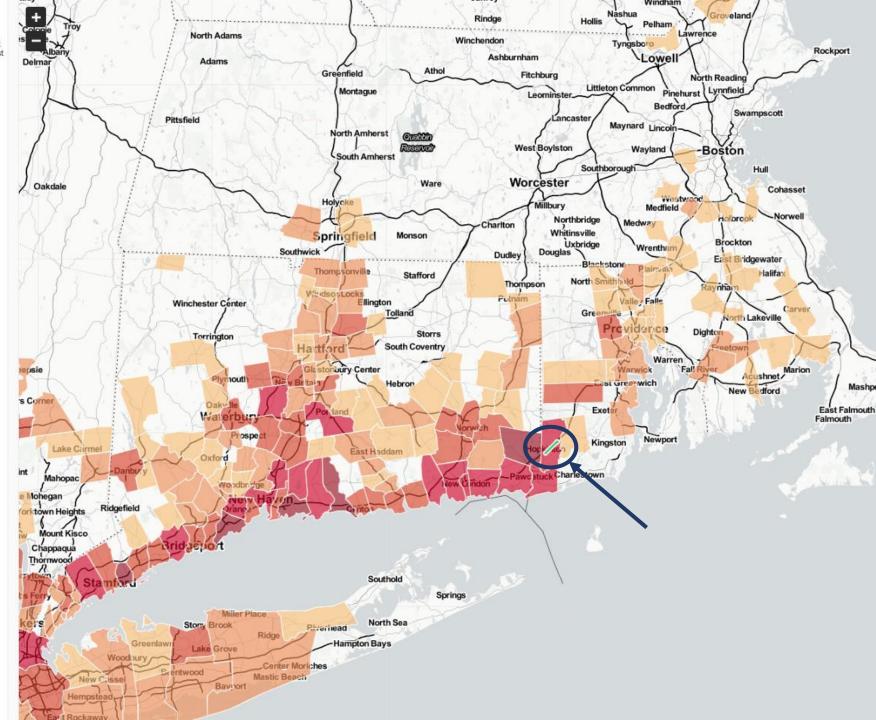
Using the Rhode Island data set

View Matrix

I-95 Northbound between Woodville Alton Rd/Exit 2 and Woodville Alton Rd/Exit 2; Subcounty to Subcounty; Heavy vehicles; Started and ended: July and August 2018, All days of week, 12 AM - 12 AM



Submit



Barnstab

Hyarinis

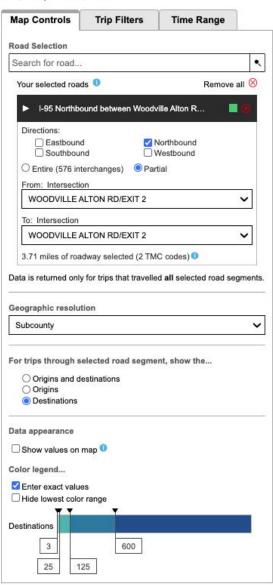
Mashpee

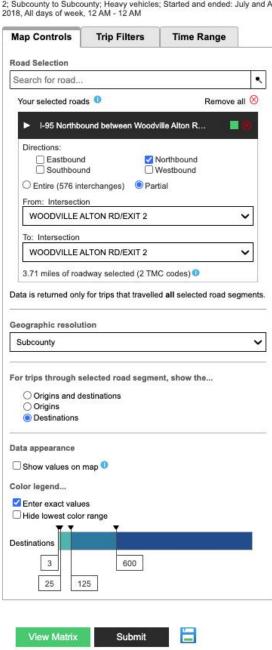
Harwic

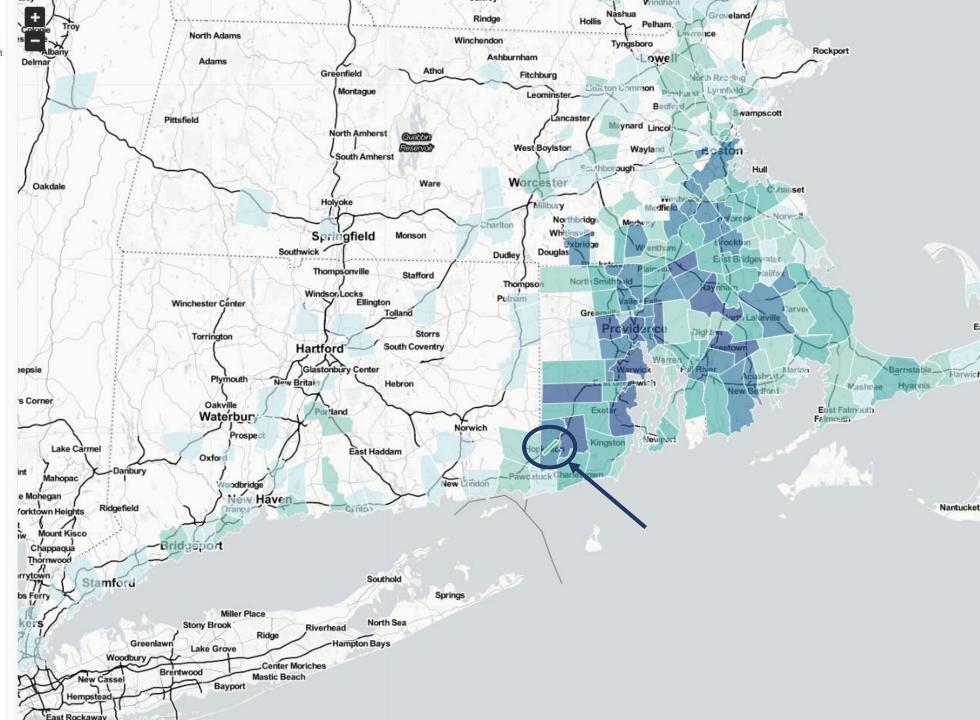
Nantucket

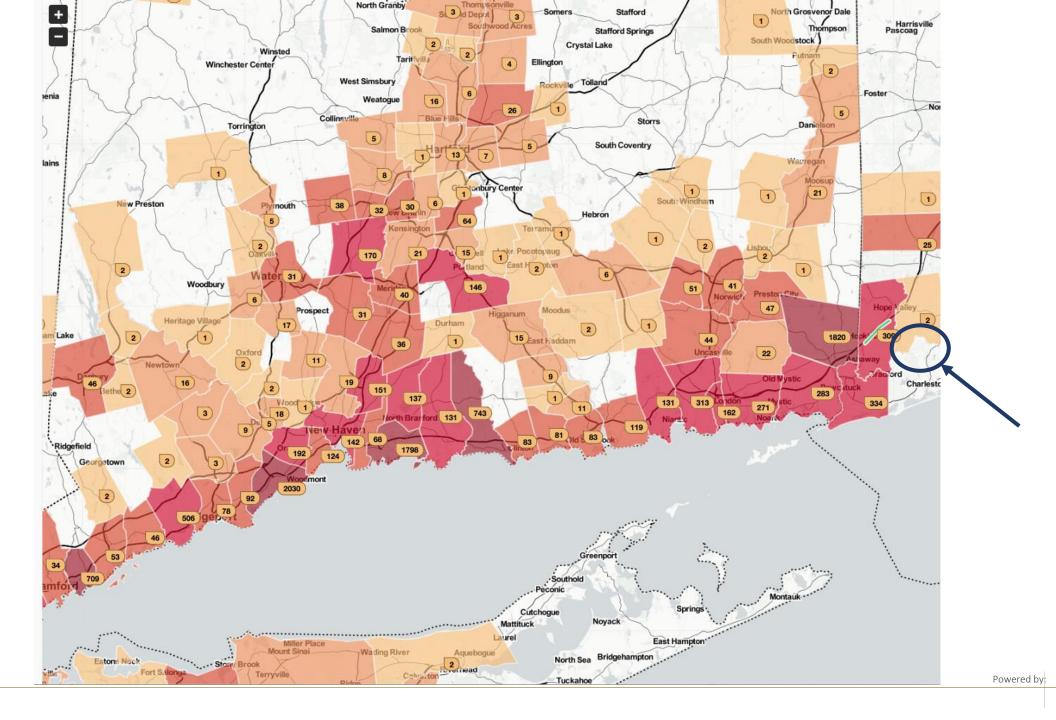
Using the Rhode Island data set

I-95 Northbound between Woodville Alton Rd/Exit 2 and Woodville Alton Rd/Exit 2; Subcounty to Subcounty; Heavy vehicles; Started and ended: July and August 2018, All days of week, 12 AM - 12 AM

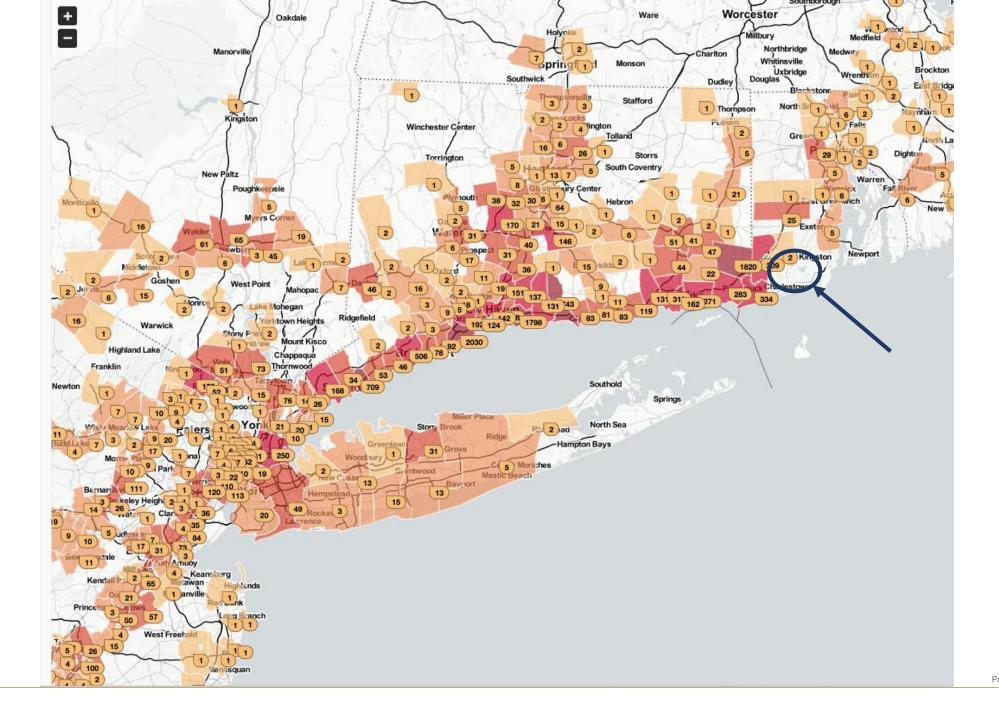




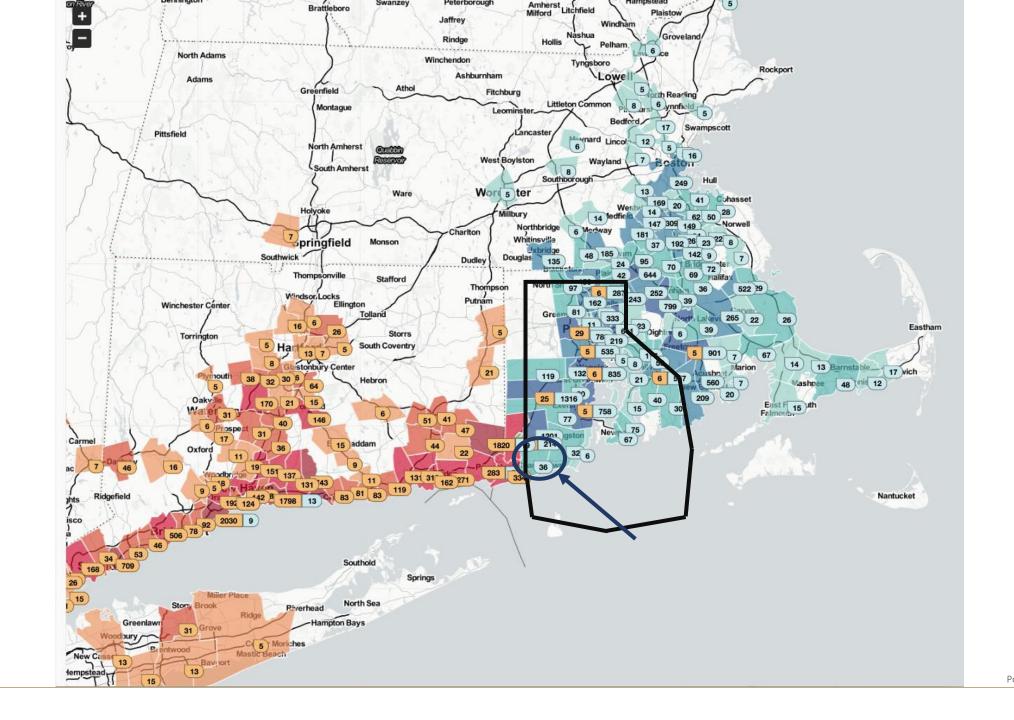












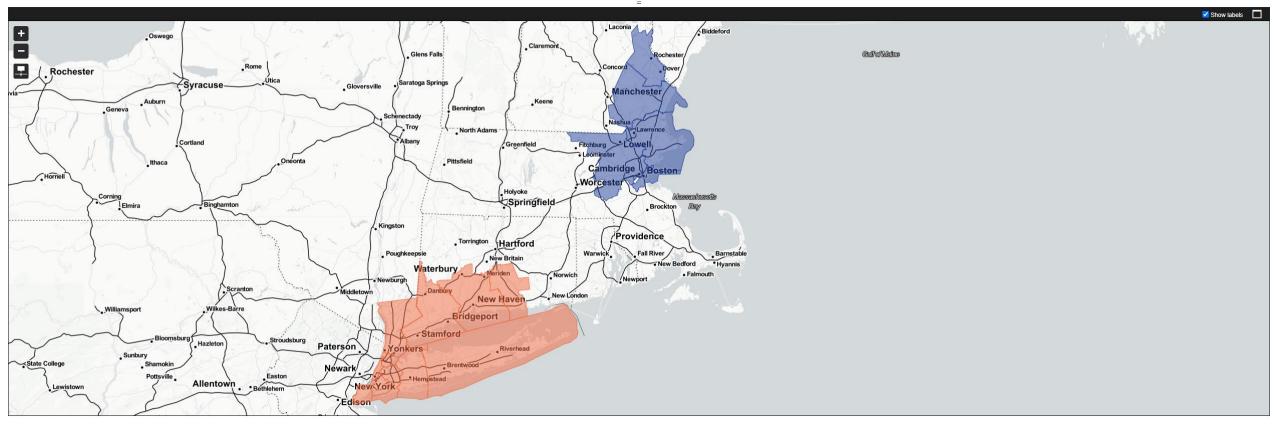
Trip Analytics

Route Analysis

Using the Rhode Island data set
County to County; Started and ended: July, August, September, October, November and December 2020 and January 2021, All days of week, 6 AM - 6 PM; All vehicle types

Trips from 11 Counties to 5 Counties

Show on m	p										
Map R	ank Route	# of Trips ▼	Light Vehicles Me	edium Vehicles	Heavy Vehicles	Length	Travel Time	Avg TT	Min TT	Max TT	Reliability
	1 🕒 195, US 1; 195; Jewish War Veterans Memorial Highway, 195; Gold Star Memorial Bridge, 195, US 1; Gold Star Memorial Bridge, 195; 195, US 6; 1-95, 195;	696	572	90	34	113 mi	1 h 44 m	1 h 45 m	1 h 16 m	2 h 42 m	1.1
	2 🕨 I 95, US 1; I 95; Jewish War Veterans Memorial Highway, I 95; Gold Star Memorial Bridge, I 95, US 1; Gold Star Memorial Bridge, I 95; I 95, US 6; I-95, I 95;	170	146	14	10	114 mi	1 h 42 m	1 h 46 m	1 h 26 m	2 h 35 m	1.13
	3 🕨 I 95, US 1; I 95; Jewish War Veterans Memorial Highway, I 95; Gold Star Memorial Bridge, I 95, US 1; Gold Star Memorial Bridge, I 95; I 295; I 93, US 1; Yan	55	14	40	1	120 mi	1 h 59 m	1 h 58 m	1 h 24 m	2 h 21 m	1.03
	4 🕨 I 95, US 1; I 95; Jewish War Veterans Memorial Highway, I 95; Gold Star Memorial Bridge, I 95, US 1; Gold Star Memorial Bridge, I 95; I 95, US 6; I-95, I 95;	48	42	5	1	109 mi	1 h 38 m	1 h 44 m	1 h 29 m	2 h 14 m	1.2
	5 🕨 I 95, US 1; I 95; Jewish War Veterans Memorial Highway, I 95; Gold Star Memorial Bridge, I 95, US 1; Gold Star Memorial Bridge, I 95; I 95, US 6; I 95, I 95	29	18	4	7	113 mi	1 h 44 m	1 h 47 m	1 h 26 m	2 h 36 m	1.07
	6 🕟 Orient Point, NY - New London, CT; Ferry Street; Water Street; CT 32; Gold Star Memorial Bridge, I 95, US 1; Gold Star Memorial Bridge, I 95; I 95; Jewish \	27	27	0	0	118 mi	1 h 29 m	1 h 34 m	1 h 16 m	2 h 54 m	1.09
	7 🕨 I 95, US 1; I 95; Jewish War Veterans Memorial Highway, I 95; Gold Star Memorial Bridge, I 95, US 1; Gold Star Memorial Bridge, I 95, US 6; Thurston :	21	14	3	4	113 mi	1 h 54 m	1 h 54 m	1 h 32 m	2 h 35 m	1.1
	8 🕒 195, US 1; I 95; Jewish War Veterans Memorial Highway, I 95; Gold Star Memorial Bridge, I 95, US 1; Gold Star Memorial Bridge, I 95; Thurbers Avenue; Alk	19	16	0	3	113 mi	1 h 39 m	1 h 39 m	1 h 26 m	1 h 55 m	1.08
	9 🕨 I 95, US 1; I 95; Jewish War Veterans Memorial Highway, I 95; Gold Star Memorial Bridge, I 95, US 1; Gold Star Memorial Bridge, I 95; I 95, US 6; I-95, I 95;	17	16	1	0	113 mi	1 h 37 m	1 h 38 m	1 h 28 m	1 h 50 m	1.05
	otal	2309	1869	318	122	1					



Trip Analytics

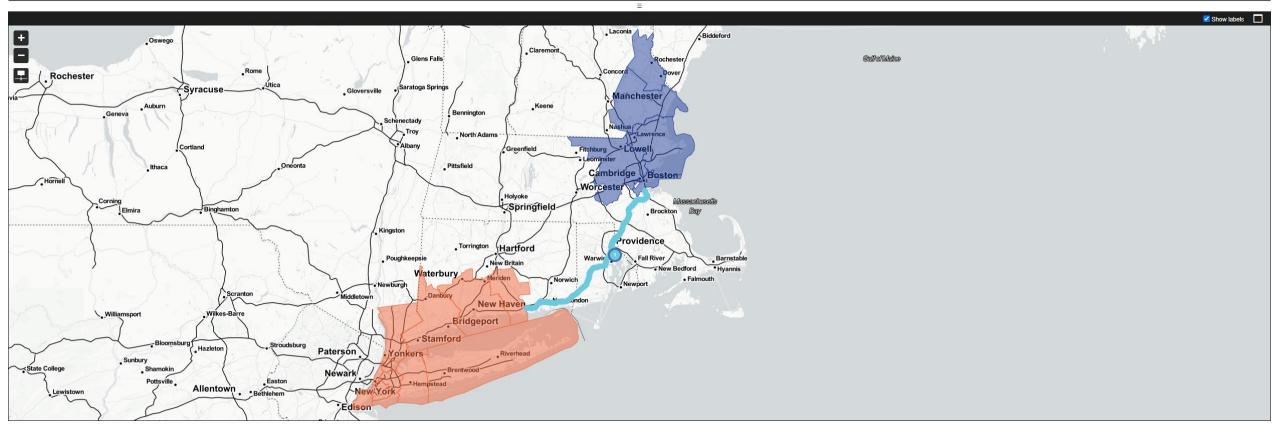
Logged in as ivanovn@umd.edu My History Help

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Trips from 11 Counties to 5 Counties

Control of the Contro											
■ Map	Rank Route	# of Trips▼	Light Vehicles	Medium Vehicles	Heavy Vehicles	Length	Travel Time	Avg TT	Min TT	Max TT	Reliability
☑	1 195, US 1; 195; Jewish War Veterans Memorial Highway, 195; Gold Star Memorial Bridge, 195, US 1; Gold Star Memorial Bridge, 195, US 6; 195, US 6; 195, US 6; 195, US 7; Yankee Division Highway, 193, US 1; Southeast Expressway, 193, US 1, MA 3	696	572	90	34	113 mi	1 h 44 m	1 h 45 m	1 h 16 m	2 h 42 m	1.1 📤
	2 1 95, US 1; 1 95; Jewish War Veterans Memorial Highway, I 95; Gold Star Memorial Bridge, I 95, US 1; Gold Star Memorial Bridge, I 95, US 6, I 95, I 95, VS 6, I 95, I 95; Yankee Division Highway, I 95, US 1, MA 128; Yankee Division Highway, I 95, MA 128	170	146	14	10	114 mi	1 h 42 m	1 h 46 m	1 h 26 m	2 h 35 m	1.13
	3 195, US 1; 195; Jewish War Veterans Memorial Highway, 195; Gold Star Memorial Bridge, 195, US 1; Gold Star Memorial Bridge, 195, US 1; Yankee Division Highway, 193, US 1; Southeast Expressway, 193, US 1, MA 3	55	14	40	1	120 mi	1 h 59 m	1 h 58 m	1 h 24 m	2 h 21 m	1.03
	4 > 195, US 1; 195; Jewish War Veterans Memorial Highway, 195; Gold Star Memorial Bridge, 195, US 1; Gold Star Memorial Bridge, 195, US 1; 95, US 6; I-95, I 95, US 1; Washington Street, MA 138; Canton Avenue, MA 138; Blue Hill Avenue, MA 138; Brush Hill Road, MA 138; Blue Hills Par	r 48	42	5	1	109 mi	1 h 38 m	1 h 44 m	1 h 29 m	2 h 14 m	1.2
	5 195, US 1; 195; Jewish War Veterans Memorial Highway, 195; Gold Star Memorial Bridge, 195, US 1; Gold Star Memorial Bridge, 195, US 6; 195, US 6; 195, US 6; 195, US 7; Yankee Division Highway, 193, US 1; Southeast Expressway, 193, US 1, MA 3	29	18	4	7	113 mi	1 h 44 m	1 h 47 m	1 h 26 m	2 h 36 m	1.07
	6 Forient Point, NY - New London, CT, Ferry Street; Water Street; CT 32; Gold Star Memorial Bridge, I 95, US 1; Gold Star Memorial Bridge, I 95, I 95; Jewish War Veterans Memorial Highway, I 95, I 95, US 1; I-95, US 1; I-9	. 27	27	0	0	118 mi	1 h 29 m	1 h 34 m	1 h 16 m	2 h 54 m	1.09
	7 🕨 195, US 1; 195; Jewish War Veterans Memorial Highway, 195; Gold Star Memorial Bridge, 195, US 1; Gold Star Memorial Bridge, 195, US 1; South Street; Main Street; Pearl Street; Marrin Street; Grace Street; US 1; 195, 195, 193, US 1; Yankee Division Highway, 193, US 1; South	21	14	3	4	113 mi	1 h 54 m	1 h 54 m	1 h 32 m	2 h 35 m	1.1
	8 🕨 195, US 1; 195; Jewish War Veterans Memorial Highway, 195; Gold Star Memorial Bridge, 195, US 1; Gold Star Memorial Bridge, 195; Thurbers Avenue, US 1A; Eddy Street; US 1A; Eddy Street; Dyer Street; Memorial Boulevard; Washington Street; Kennedy Plaza; Washin	19	16	0	3	113 mi	1 h 39 m	1 h 39 m	1 h 26 m	1 h 55 m	1.08
	9 🕨 195, US 1; 195; Jewish War Veterans Memorial Highway, 195, Gold Star Memorial Bridge, 195, US 1; Gold Star Memorial Bridge, 195; 195, US 6; I-95, I 95; Yankee Division Highway, 195, US 1, MA 128; Yankee Division Highway, 195, US 1, MA 128; Worcester Street, MA 9; Boylston Street, MA	. 17	16	1	0	113 mi	1 h 37 m	1 h 38 m	1 h 28 m	1 h 50 m	1.05 🕌
	Total	2309	1869	318	122						



Trip Analytics

Logged in as ivanovn@umd.edu My History Help

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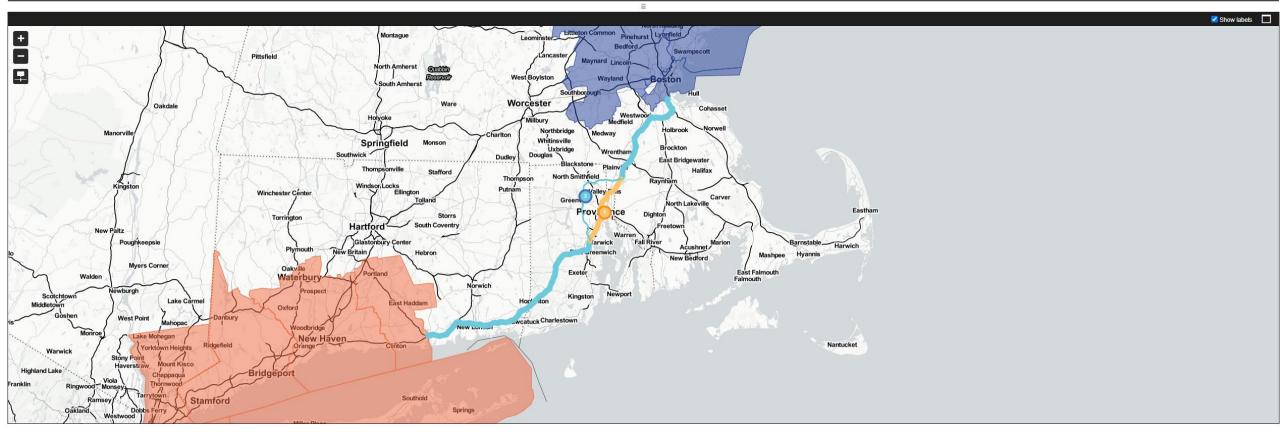
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SHOW OF	map										
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	2 195, US 1; 195; Jewish War Veterans Memorial Highway, 195; Gold Star Memorial Bridge, 195, US 1; Gold Star Memorial Bridge, 195, US 6; 195, US 6; 195, 195, Yankee Division Highway, 195, US 1, MA 128; Yankee Division Highway, 195, MA 128	170	146	14	10	114 mi	1 h 42 m	1 h 46 m	1 h 26 m	2 h 35 m	1.13
	3 195, US 1; 195; Jewish War Veterans Memorial Highway, 195; Gold Star Memorial Bridge, 195, US 1; Gold Star Memorial Bridge, 195, US 1; Yankee Division Highway, 193, US 1; Southeast Expressway, 193, US 1, MA 3	55	14	40	1	120 mi	1 h 59 m	1 h 58 m	1 h 24 m	2 h 21 m	1.03
	▶ 195, US 1; 195; Jewish War Veterans Memorial Highway, 195; Gold Star Memorial Bridge, 195, US 1; Gold Star Memorial Bridge, 195; 195, US 6; 195, 195, 195, 193, US 1; Washington Street, MA 138; Canton Avenue, MA 138; Blue Hill Avenue, MA 138; Brush Hill Road, MA 138; Blue Hill Road, MA 138;	48	42	5	1	109 mi	1 h 38 m	1 h 44 m	1 h 29 m	2 h 14 m	1.2
	5 195, US 1; 195; Jewish War Veterans Memorial Highway, 195; Gold Star Memorial Bridge, 195, US 1; Gold Star Memorial Bridge, 195, US 6; 195, 195, US 6; 195, 195, US 1; Yankee Division Highway, 193, US 1; Southeast Expressway, 193, US 1, MA 3	29	18	4	7	113 mi	1 h 44 m	1 h 47 m	1 h 26 m	2 h 36 m	1.07
	6 Forient Point, NY - New London, CT, Ferry Street; Water Street; CT 32; Gold Star Memorial Bridge, I 95, US 1; Gold Star Memorial Bridge, I 95, I 95; Jewish War Veterans Memorial Highway, I 95, I 95, US 1; I-95, US 1; I-9	27	27	0	0	118 mi	1 h 29 m	1 h 34 m	1 h 16 m	2 h 54 m	1.09
	> ► 195, US 1; 195; Jewish War Veterans Memorial Highway, 195; Gold Star Memorial Bridge, 195, US 1; Gold Star Memorial Bridge, 195, US 1; Soutl Stripet; Main Street; Pearl Street; Marrin Street; Grace Street; US 1; 1-95, 195; 193, US 1; Yankee Division Highway, 193, US 1; Soutl	21	14	3	4	113 mi	1 h 54 m	1 h 54 m	1 h 32 m	2 h 35 m	1.1
	▶ 195, US 1; 195; Jewish War Veterans Memorial Highway, 195, Gold Star Memorial Bridge, 195, US 1; Gold Star Memorial Bridge, 195; Thurbers Avenue; Allens Avenue, US 1A; Eddy Street; Dyer Street; Memorial Bridge with Street; Memorial Bridge, 195, US 1; Gold Star Memorial Bridge, 195, Thurbers Avenue, US 1A; Eddy Street; US 1A; Eddy Street; Dyer Street; Memorial Bridge, 195, US 1; Gold Star Memorial Bridge, 1	19	16	0	3	113 mi	1 h 39 m	1 h 39 m	1 h 26 m	1 h 55 m	1.08
	9 > 195, US 1; 195; Jewish War Veterans Memorial Highway, 195, Gold Star Memorial Bridge, 195, US 1; Gold Star Memorial Bridge, 195; 195, US 6; 1-95, 195, Yankee Division Highway, 195, US 1, MA 128; Yankee Division Highway, 195, MS 1, MS 128; Worcester Street, MA 9; Boylston Street, MA	17	16	1	0	113 mi	1 h 37 m	1 h 38 m	1 h 28 m	1 h 50 m	1.05 🕌
	Total	2300	1860	319	122						



Trip Analytics

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Route Analysis

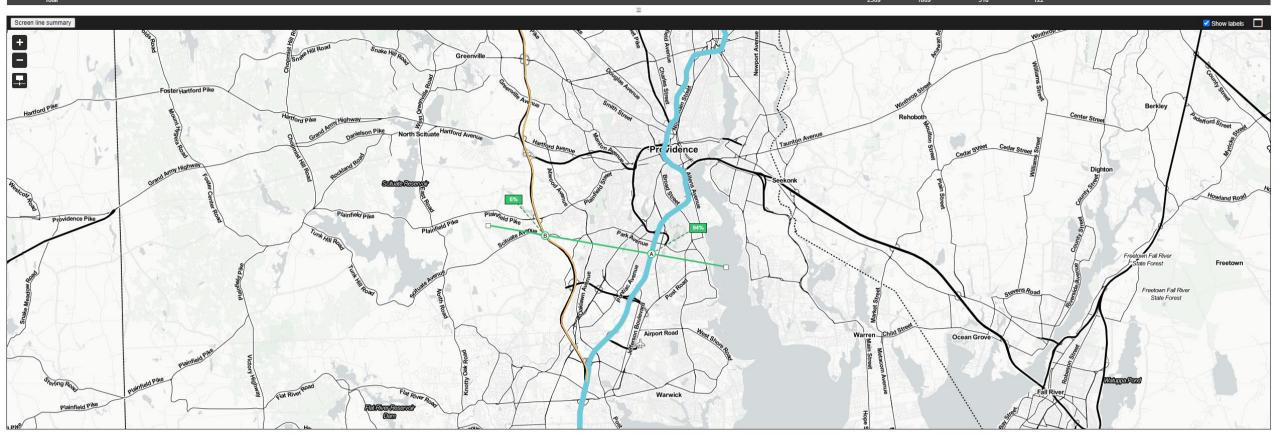
Using the Rhode Island data s

County to County; Started and ended: July, August, September, October, November and December 2020 and January 2021, All days of week, 6 AM - 6 PM; All vehicle types

Trips from 11 Counties to 5 Counties

Show on map...

- Wap R	ralik Route	# Of ITIPS V	Light vehicles	medium venicles	neavy venicles	Lengui	Havel Hille	AVGII	MIIII	MIGX II	Reliability
✓	1 195, US 1; 195; Jewish War Veterans Memorial Highway, 195; Gold Star Memorial Bridge, 195, US 1; Gold Star Memorial Bridge, 195, US 1; Sold Star Memorial Bridge, 195, 195, US 6; 195, 195, US 1; Yankee Division Highway, 193, US 1; Southeast Expressway, 193, US 1; MA 3	696	572	90	34	113 mi	1 h 44 m	1 h 45 m	1 h 16 m	2 h 42 m	1.1 📥
~	2 195, US 1; 195; Jewish War Veterans Memorial Highway, 195; Gold Star Memorial Bridge, 195, US 1; Gold Star Memorial Bridge, 195, US 1; Gold Star Memorial Bridge, 195, US 6; I-95, US 6; I-95, I95; Yankee Division Highway, 195, US 1, MA 128; Yankee Division Highway, 195, MA 128	170	146	14	10	114 mi	1 h 42 m	1 h 46 m	1 h 26 m	2 h 35 m	1.13
	3 195, US 1; 195; Jewish War Veterans Memorial Highway, 195; Gold Star Memorial Bridge, 195, US 1; Gold Star Memorial Bridge, 195, US 1; Yankee Division Highway, 193, US 1; Southeast Expressway, 193, US 1, MA 3	55	14	40	1	120 mi	1 h 59 m	1 h 58 m	1 h 24 m	2 h 21 m	1.03
	- 4 🕟 195, US 1; 195, Jewish War Veterans Memorial Highway, 195; Gold Star Memorial Bridge, 195, US 1; Gold Star Memorial Bridge, 195, US 1; 95, US 6; 1-95, US 6; 1-95, US 6; 1-95, US 95, US 1; Washington Street, MA 138; Canton Avenue, MA 138; Blue Hill Avenue, MA 138; Brue Hill Road, MA 138; Blue Hill Star Memorial Bridge, 195, US 1; 195	ar 48	42	5	1	109 mi	1 h 38 m	1 h 44 m	1 h 29 m	2 h 14 m	1.2
	5 195, US 1; 195; Jewish War Veterans Memorial Highway, 195; Gold Star Memorial Bridge, 195, US 1; Gold Star Memorial Bridge, 195, US 1; Fold Star Memorial Bridge, 195, US 1; Vankee Division Highway, 193, US 1; Southeast Expressway, 193, US 1, MA 3	29	18	4	7	113 mi	1 h 44 m	1 h 47 m	1 h 26 m	2 h 36 m	1.07
	6 Norient Point, NY - New London, CT; Ferry Street; Water Street; CT 32; Gold Star Memorial Bridge, 195, US 1; Gold Star Memorial Bridge, 195, 195; Jewish War Veterans Memorial Highway, 195; 195, US 1; 195, US	(27	27	0	0	118 mi	1 h 29 m	1 h 34 m	1 h 16 m	2 h 54 m	1.09
	7 🕨 195, US 1; 195, Jewish War Veterans Memorial Highway, 195; Gold Star Memorial Bridge, 195, US 1; Gold Star Memorial Bridge, 195, US 1; South Street; Main Street; Pearl Street; Marrin Street; Grace Street; US 1; 195, 195, 195, 193, US 1; Yankee Division Highway, 193, US 1; South	il 21	14	3	4	113 mi	1 h 54 m	1 h 54 m	1 h 32 m	2 h 35 m	1.1
	8 🕨 195, US 1; 195, Jewish War Veterans Memorial Highway, 195; Gold Star Memorial Bridge, 195, US 1; Gold Star Memorial Bridge, 195; Thurbers Avenue; Allens Avenue, US 1A; Eddy Street, US 1A; Eddy Street; Dyer Street; Memorial Boulevard; Washington Street; Kennedy Plaza; Washin	1 19	16	0	3	113 mi	1 h 39 m	1 h 39 m	1 h 26 m	1 h 55 m	1.08
	9 F 195, US 1; 195, Jewish War Veterans Memorial Highway, 195; Gold Star Memorial Bridge, 195, US 1; Gold Star Memorial Bridge, 195, US 1; 95, US 6; I-95, US 6; I-95, US 6; I-95, US 1; MA 128; Yankee Division Highway, 195, US 1, MA 128; Yankee Division Highway, 195, US 1; MA 128; Worcester Street, MA 9; Boylston Street, MA	17	16	1	0	113 mi	1 h 37 m	1 h 38 m	1 h 28 m	1 h 50 m	1.05 💂
1.5	Total	2309	1869	318	122						



Local Freight Route Analysis

Trip Analytics

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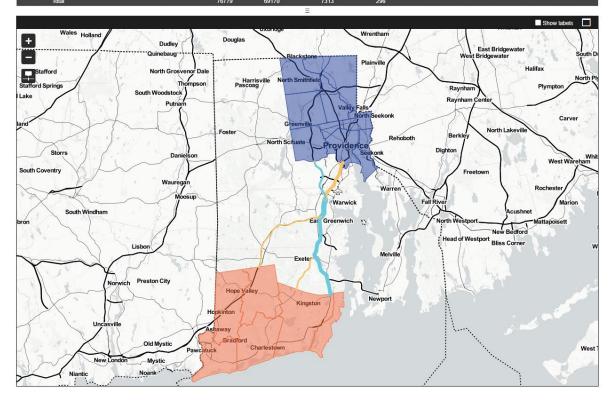
Route Analysis

Using the Rhode Island data set subcounty to Subcounty Started and ended: July, August, September, October, November and December 2020 and January 2021, All days of week, 5 AM - 8 PM; All vehicle types

Trips from 6 Subcounties in Rhode Island to 11 Subcounties in Rhode Island

Show on man

Officer of				***		***	- 10				70.	
- Map	Rank	Route	# of Trips▼	Light Vehicles	Medium Vehicles	Heavy Vehicles	Length	Travel Time	Avg TT	Min TT	Max TT	Reliability
2	1	► Tower Hill Road, US 1, RI 138; Tower Hill Road	20295	18523	1741	31	22 mi	21 m	22 m	00 m	1 h 14 m	1.1
	2	► Tower Hill Road, US 1, RI 138; Tower Hill Road	15504	14083	1373	48	22 mi	21 m	22 m	03 m	1 h 23 m	1.1
2	3	I 95	8473	7370	1024	79	23 mi	19 m	19 m	11 m	1 h 10 m	1.09
	4	1 95; 1 295	4471	3713	686	72	23 mi	19 m	20 m	12 m	1 h 16 m	1.09
2	5	► Tower Hill Road, US 1, RI 138; Tower Hill Road	2901	2710	190	1	22 mi	22 m	22 m	16 m	57 m	1.1
	6	► South County Trail, RI 2; RI 2; Ten Rod Road,	1427	1332	92	3	22 mi	24 m	25 m	12 m	55 m	1.09
	7	► South County Trail, RI 2; RI 2; Ten Rod Road,	1212	1144	67	1	23 mi	24 m	25 m	14 m	1 h 13 m	1.08
	8	► Tower Hill Road, US 1, RI 138; Tower Hill Road	1061	1016	44	1	22 mi	21 m	22 m	08 m	1 h 07 m	1.1
	9	I 95; RI 10	965	850	102	13	24 mi	20 m	21 m	16 m	47 m	1.09
V	10	► Tower Hill Road, US 1, RI 138; Tower Hill Road	846	705	141	0	22 mi	22 m	23 m	05 m	54 m	1.1
	Total		76770	60170	7212	206						



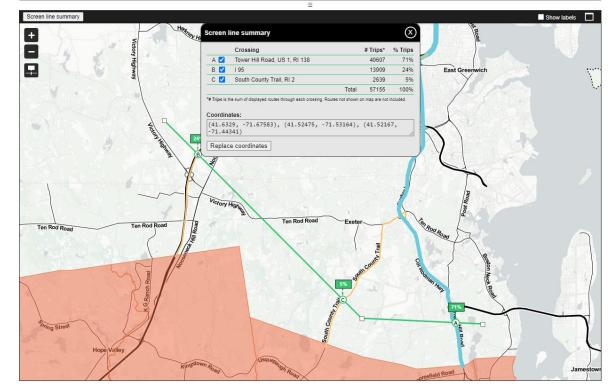
Trip Ar	alytics	Logged in as ivanovn@umd.edu	My History Help	SWITCH DATA SET	LOGOUT
				3	

Route Analysis

Using the Rhode Island data set Subcounty; Started and ended: July, August, September, October, November and December 2020 and January 2021, All days of week, 5 AM - 8 PM; All vehicle types

Trips from 6 Subcounties in Rhode Island to 11 Subcounties in Rhode Island

Show or	The second				111							(1) 12 (1)
- Map	Rank	Route	# of Trips ▼	Light Vehicles	Medium Vehicles	Heavy Vehicles	Length	Travel Time	Avg TT	Min TT	Max TT	Reliability
	1	► Tower Hill Road, US 1, RI 138; Tower Hill Road	20295	18523	1741	31	22 mi	21 m	22 m	00 m	1 h 14 m	1.1
	2	► Tower Hill Road, US 1, RI 138; Tower Hill Road	15504	14083	1373	48	22 mi	21 m	22 m	03 m	1 h 23 m	1.1
	3	195	8473	7370	1024	79	23 mi	19 m	19 m	11 m	1 h 10 m	1.09
	4	1 95; 1 295	4471	3713	686	72	23 mi	19 m	20 m	12 m	1 h 16 m	1.09
	5	► Tower Hill Road, US 1, RI 138; Tower Hill Road	2901	2710	190	1	22 mi	22 m	22 m	16 m	57 m	1.1
	6	► South County Trail, RI 2; RI 2; Ten Rod Road,	1427	1332	92	3	22 mi	24 m	25 m	12 m	55 m	1.09
	7	► South County Trail, RI 2; RI 2; Ten Rod Road,	1212	1144	67	1	23 mi	24 m	25 m	14 m	1 h 13 m	1.08
	8	► Tower Hill Road, US 1, RI 138; Tower Hill Road	1061	1016	44	1	22 mi	21 m	22 m	08 m	1 h 07 m	1.1
	9	I 95; RI 10	965	850	102	13	24 mi	20 m	21 m	16 m	47 m	1.09
V	10	► Tower Hill Road, US 1, RI 138; Tower Hill Road	846	705	141	0	22 mi	22 m	23 m	05 m	54 m	1.1





Nikola Ivanov

ivanovn@umd.edu

301-405-3626





Spotlight Presentation: TETC Mileage Based User Fee Truck Pilot

Marygrace Parker, Freight Director
The Eastern Transportation Coalition

NOTE: This presentation was not included during this meeting. It will be held as a separate web meeting for the Freight Committee.



Wrap Up & Upcoming Events



David Rosenberg, Freight Co-chair New York State DOT



Upcoming Events

- TETC CAV Workshop March 23, 2021
 - Freight Session Platooning Pilots and Deployments
- Traveler Info Services Virtual Summit April 1, 2021
 - Innovative Capture and Dissemination of Traveler Information
- Truck Parking Working Group Meeting April 9, 2021
 - Spotlight: GDOT Truck Parking Study, Agency Roundtable
- Freight Strategic Planning Session April 28, 2021
 - Planning for Committee activities for the next year
- Truck Parking Working Group Meeting June 4, 2021
 - Spotlight Presentation, Agency Roundtable
- TETC Strategic Planning Session (Cross-Cutting) June 9, 2021
 - Finalize 2022 Work Plan





Look for your invites from the Coalition!

- Will usually come via email from TETCoalition Freight (actually <u>TETCoalition-Freight@kmjinc.com</u>) for Freight activities
- For invitations, look for the word INVITE in the subject line of the email

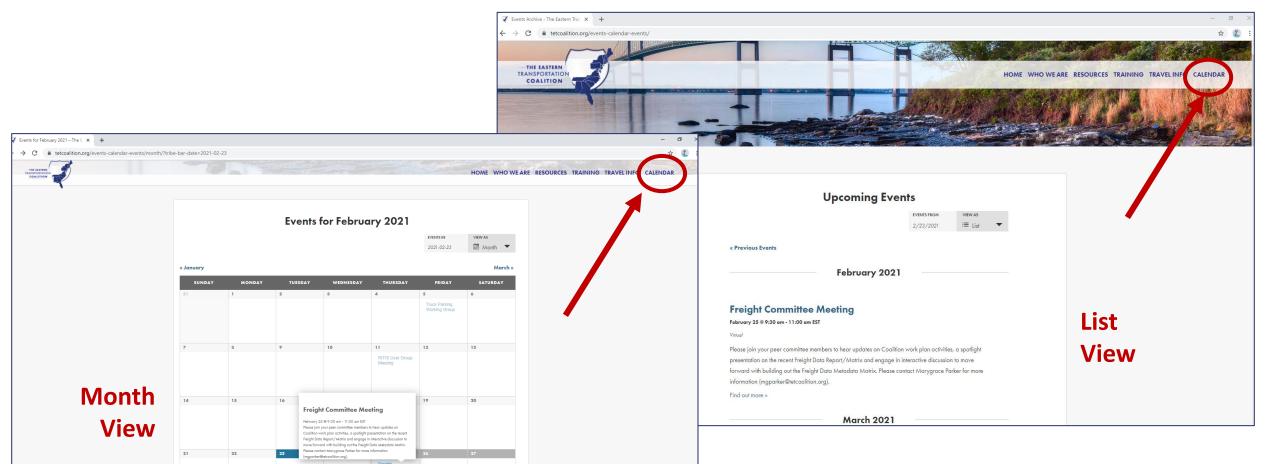


For invitations from other committees, they may be a mailer or through Adobe
 Connect





Check out the Coalition website calendar



https://tetcoalition.org/events-calendar-events/



Wrap Up







THANK YOU!

For Questions or Additional Information, please contact:

Marygrace Parker, Freight Director, 518-852-4083, mgparker@tetcoalition.org