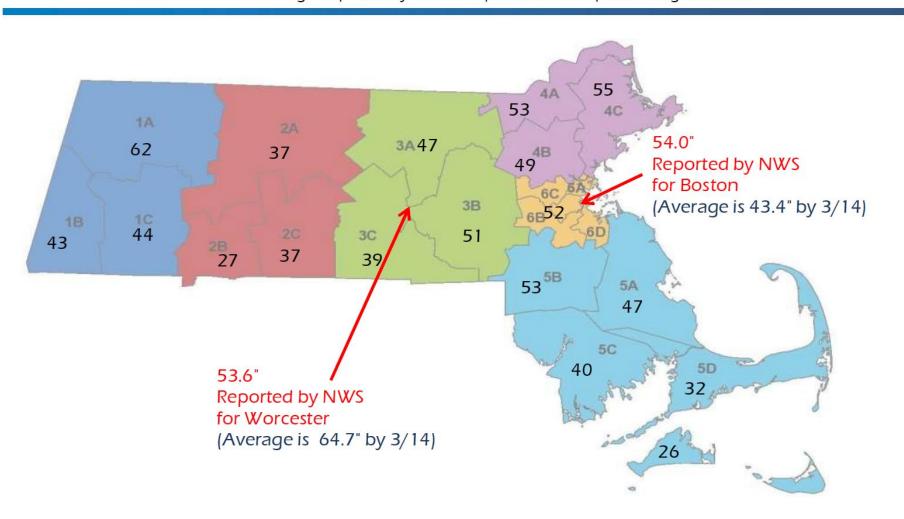
# Highway Administrator's Report

Jonathan Gulliver, Highway Administrator

March 2022

## Snow & Ice Update

FY21 Snow Fall Amounts by District Sub-Areas (inches) of 3/14/2022 Amounts are area averages reported by MassDOT personnel at depots throughout the season.



## Snow & Ice Budget Update

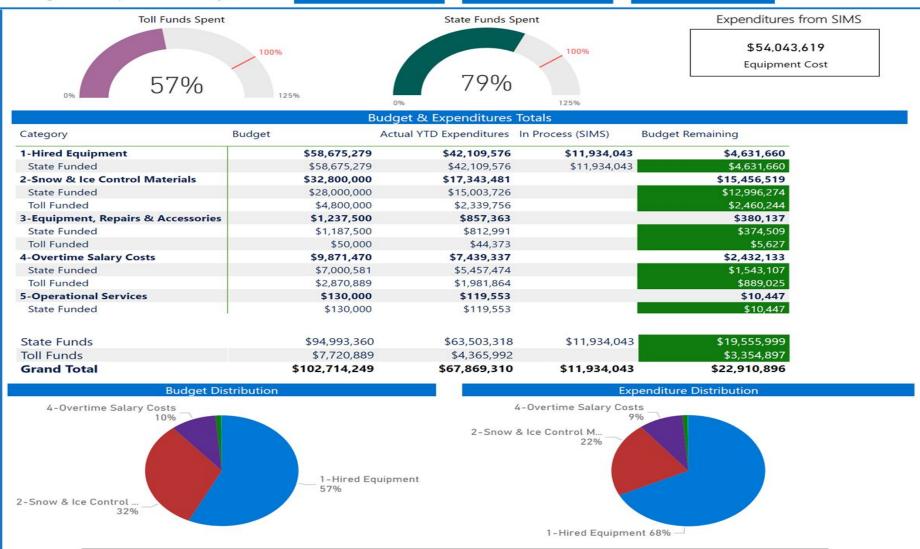


Snow & Ice Budget and Expenditure Analysis Total Annual Budget \$102,714,249

**Total YTD Expenditures** 79,803,353

**Budget Remaining** \$22,910,896

3/10/2022 6:05:54 AM



"This report is real time data. It consists of expenditure transactions entered and accepted into the accounting system (MMARS) as well as incurred Hired Equipment expenses that are not reflected in MMARS due to timing."

## Innovation Conference – May 24th & 25th

- May 24<sup>th</sup> and 25<sup>th</sup> at the DCU Center in Worcester
- Both in-person and there is a virtual option
- Registration is now open!
  - Municipal state and federal transportation leaders
  - Private Sector and Non-Profits
  - Students
- Conference topics include:
  - Investment in infrastructure and how to deliver it
  - Innovative transportation systems and construction methods
  - Streamline project delivery
  - New techniques in design and materials

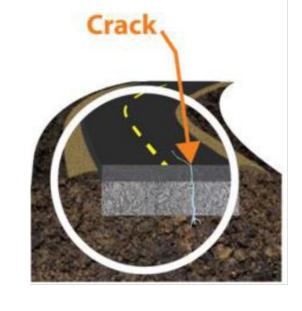


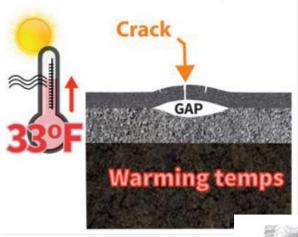
### **Pothole Season**

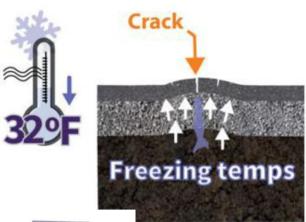
- 1. Potholes begin when water seeps into the Sub-base and Soil under the pavement, most commonly through a crack.
- 2. When water in the Sub-base and soil freezes, the ground expands. The expansion can cause the pavement to raise.
- 3. When the ice thaws, the sub-base and soil return to normal levels but the pavement often remains raised, this creates a under the pavement.
- 4. When vehicles drive over this cavity, the pavement develops additional cracks and falls into the cavity and breaks apart.









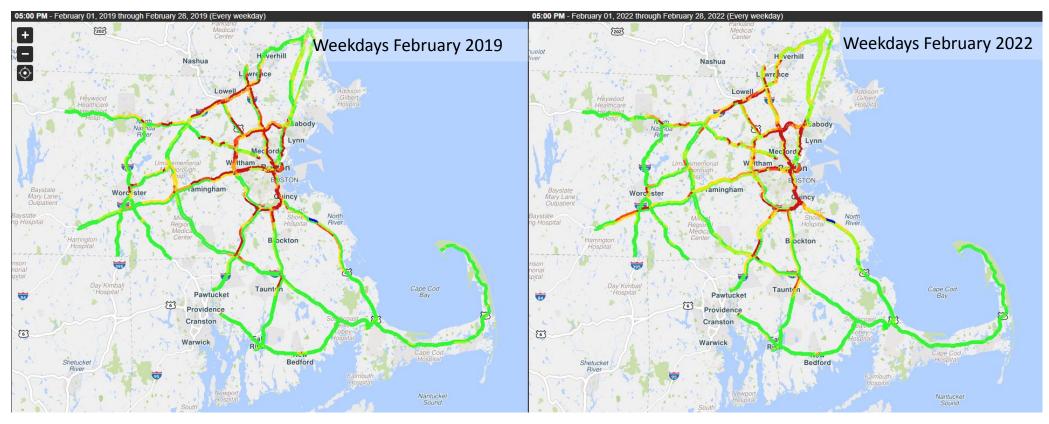


#### Trend Maps for Peak Periods: Average Weekday, Pre-COVID and Last Week

The maps below display planning time index (PTI), which shows how long a trip takes compared to an expected travel time. For instance, a PTI of 2 represents a segment travel time that takes twice as long as expected. The color scale below shows what range of PTI values each color represents.

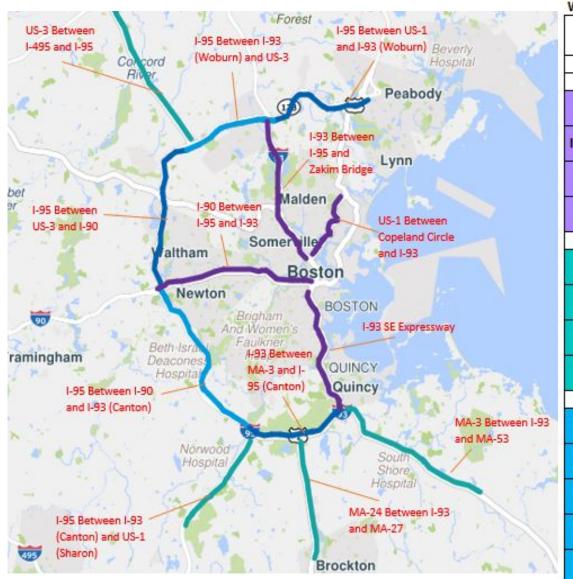


#### Eastern Massachusetts – 5 PM



3/14/2022

### **Congestion Monitoring –Travel Times and Speeds by Major Corridor**



NS 5-2 92		Travel Time Difference (min)		Percent Difference	
	NB/SB	AM Peak	PM Peak	AM Peak	PM Peak
Highways in Bo	ston	10		74	043
I-93 SE Expressway between Braintree Split and Mass Ave	NB	-3.3	3.0	-11%	20%
Connector	SB	3.9	0.5	30%	2%
I-93 north of the City between I-95/128 and the Zakim Bridge		-1.1	-3.9	-9%	-15%
		-7.1	0.0	-24%	0%
I-90 between I-95/128 and I-93		-2.1	-2.5	-9%	-14%
		-2.0	-5.7	-15%	-24%
US 1 between Copeland Circle and I-93	NB	-0.2	-1.6	-4%	-17%
	SB	-4.4	-1.1	-25%	-17%
Outer Spoke	25	92			-1
MA-3 between I-93 and MA-53	NB	-2.9	0.7	-16%	6%
	SB	0.5	-1.2	5%	-8%
MA-24 between I-93 and MA-27	NB	-0.1	-1.1	-1%	-13%
	SB	0.2	-0.4	2%	-4%
I-95 between I-93 Canton and US-1 Sharon	NB	-1.4	0.6	-13%	9%
	SB	-0.1	-2.3	-2%	-22%
US-3 between I-495 and I-95		0.2	-3.9	2%	-18%
		-2.0	0.0	-12%	0%
Inner Beltwa	y	(A) (3)			100
I-95 between US-1 Peabody and I-93 Woburn	NB	-0.5	-2.1	-5%	-14%
	SB	-2.4	2.4	-15%	24%
I-95 between I-93 Woburn and US-3	NB	0.1	-0.2	2%	-1%
	SB	-1.2	0.2	-12%	2%
I-95 between US-3 and I-90	NB	-2.0	0.4	-13%	2%
	SB	-6.1	-3.5	-30%	-20%
I-95 between I-90 and I-93 Canton		-6.7	-0.4	-29%	-3%
		-0.1	0.8	-1%	5%
I-93 between MA-3 and I-95	NB	-1.1	-1.0	-12%	-8%
	SB	-2.0	-0.1	-21%	-1%

### **Mobility Dashboard Travel Time Differences Tool**

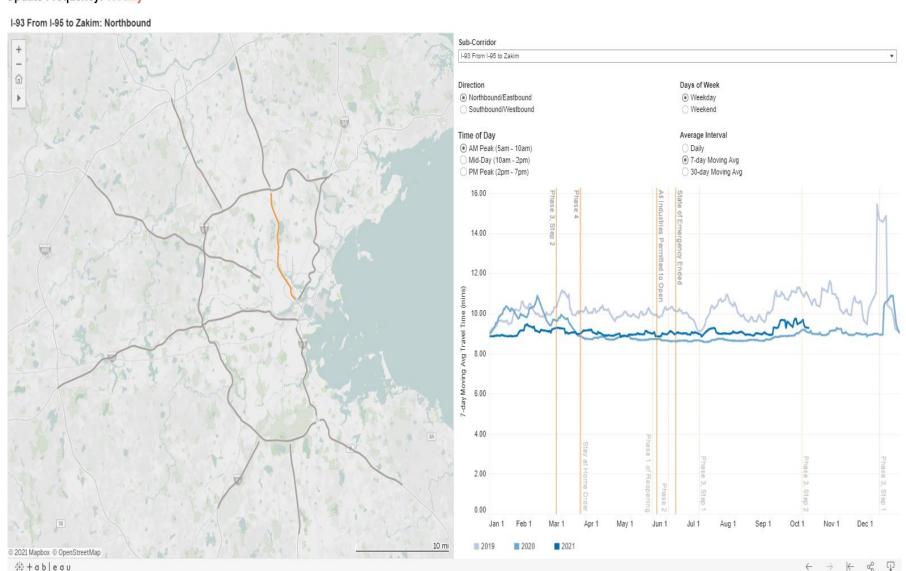
Travel Time Differences on Select Corridors, 2019 vs 2020 vs 2021

**Update Frequency: Weekly** 

The Travel Time Differences tool on the Mobility Dashboard can be used to compare AM Peak, mid day, and PM peak average travel times from 2019, 2020, and 2021.

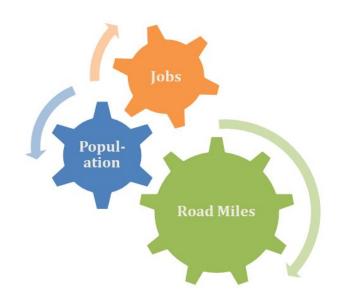
Average travel times are available for 18 corridors within I-495 and can be viewed day-by-day, or by a rolling 7 or 30-day rolling average. Data is available for just weekdays or just weekends.

https://mobility-massdot.hub.arc
gis.com/



## Chapter 90 Program

- Chapter 90 entitles cities and towns to reimbursements on transportation projects
  - Formula-based apportionments determined by lane miles, population, and employment
- Eligible project costs include:
  - Highway construction, preservation and improvement projects
  - Pedestrian and bicycle facilities
  - Road building machinery and equipment
  - Consultant services for transportation planning
- Governor Baker filed the following:
  - \$200 million in Chapter 90
  - \$100 million in additional Chapter 90 funding
  - \$100 million for municipal resiliency and pothole repairs



#### **Chapter 90 Apportionments and Spending**

Fiscal Year	Apportionment	Spend
FY19	\$240M	\$211.4M
FY20	\$220M	\$213M
FY21	\$200M	\$210M
FY22	\$200M	



## Chapter 90 Program

- New Guidance Document released in August
  - Provides better service to our municipalities with both new and clarified information
    - Centralized and easy-to-read
  - Supports local decision-making and investment planning with new tools:
    - Planning Toolkit
    - Quick-Start Guide
- Website overhaul reorganized all new content
- Significant outreach conducted and more planned

