

Research in Progress

Methods to Identify Problematic Carriers and Prevent Infrastructure Damage

Research Need

To establish the current use and availability of datasets, method of access and integration nuances related to oversize/overweight trucking operations in Massachusetts, as well as violation types and rates for these vehicles.

Goals/Objectives

Compile a comprehensive classification of relevant existing data sources, fields, and their framework of interoperability from state agencies and departments including but not limited to: MassDOT Registry of Motor Vehicles (RMV) Division citation, licensed drivers, registered vehicles, and crash data, as well as Massachusetts State Police (MSP) SafetyNet Commercial Motor Vehicle (CMV) crash and inspection data. Furthermore, MassDOT datasets including (but not limited to) overweight/size permits, freight restrictions, roadway inventory, and toll records would be examined for potential inclusion.

Develop recommendations and procedures for the preferred utilization of shared datasets from multiple departments and agencies to enable MassDOT to identify and analyze height and/or weight restricted Massachusetts transportation infrastructure, and to prevent damage from problematic use by commercial carriers.

Project Information

This project is being conducted as part of the Massachusetts Department of Transportation (MassDOT) Research Program with funding from Federal Highway Administration (FHWA) State Planning and Research (SPR) funds.

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Performing Organization:

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Project Champion:

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Project Start Date:

3/1/2022

Expected Project Completion Date:

8/31/2023

Methodology

To accomplish the objectives of the project, the research team will perform the following tasks:

Task 1: State of the Practice Report on Carrier/Vehicle/Permit-Specific Overweight/Size Monitoring

Task 2: Classification of Massachusetts Data Sources, Fields and Framework of Interoperability

Task 3: Establish Data Canisters to Monitor Carrier Overweight/size Patterns

Task 4: Final Presentation and Sample Analysis

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