**MoDOT/MTI Structures Research Program**

**Progress Report – 9/30/2020**

**Title: Developing Implementation Strategies for Risk Based Inspection**

**Project Number: TR201910**

**Principal Investigator (PI): Glenn Washer**

**Co-PI(s): Henry Brown**

|  |  |
| --- | --- |
| **Award date:**  | 11/01/2018 |
| **Scheduled completion date:** | 12/31/2021 | **% of project completed to date:** | 65.0% |
| **Total budget:**  | $400,000.00 | **% of budget expended to date:**  | 77.4% |
| **Draft report due:** | 09/30/2021 | **Final report due:** | 11/30/2021 |

Provide a short description of the **work currently underway**.

*Use* [*additional notes section*](#notes) *if you need to provide more information.*

The data analysis for back-casting and preparation of the first interim report are in progress. The capabilities of R software are being reviewed for use in statistical analysis.

Provide a short description of the **noteworthy activities/accomplishments** during this reporting period.

*Use* [*additional notes section*](#notes) *if you need to provide more information.*

Development of the risk matrix to calculate the occurrence factor was completed for all of the participating states. Tables showing the criteria and relative likelihood percentage for attributes were completed for all of the states. The following bridge population statistics were compiled for the applicable bridge families in each state: number of bridges, range of ADTT and ADT, average age, number of bridges owned by DOT, etc.

Identify **issues or problems** that need to be addressed.

*Use* [*additional notes section*](#notes) *if you need to provide more information.*

The project is currently running behind schedule in terms of beginning and progressing through the back-casting task. See additional notes.

Provides dates for when the **next progress report or presentation** due:

* May 31, 2020 (Mid-project presentation)
* December 31, 2020 (Quarterly report)

**Additional notes**:

A contract amendment needs to be processed since the total commitment amount is $725,000 while the original budget was $400,000. This is due to the participation of additional states in the study. Connecticut has recently expressed interest in joining the study.

The project is currently running behind schedule in terms of beginning and progressing through the back-casting task. The interim report has behind fallen behind schedule due to unavailability of the PI due to COVID 19 events and the surrounding realignment of academic activities, which have carried over and are still in the process of being “caught up” over a spectrum of activities. Additional time above that anticipated for processing RAP data has also contributed to the delay. The interim report is currently being completed and will be submitted in October 2020. We anticipate having the meeting for the mid-project presentation in November 2020.