

Quarterly Progress Report:

Project Number and Title: 4.9 Analysis of Covid-19 and Travel In Maine (ACTIME) – Validation Study
Research Area: Research Thrust Area: 4
PI: Dr. Jonathan Rubin, University of Maine
Co-PI(s): Kathryn Ballingall, University of Maine
 Dr. Per Garder, University of Maine
Reporting Period: April 01, 2021 to June 30, 2021
Submission Date: July 14, 2021

Overview:

Provide **BRIEF** overview and summary of activities performed during the reporting period.

- The project will support Maine DOT by validating the accuracy of Streetlight Insight® Metrics AADT data using data collected at permanent and temporary count stations in Maine. We are investigating the accuracy of seasonal (monthly), daily and hourly variations in AADT and as well as the road’s classification and AADT.
- The monthly and daily variations in annual, monthly and weekly AADT streetlight and counter AADT were analyzed for statistical significance, and submitted to DOT for comment on July 7th.
- Turning count movements validation analysis is underway

Provide context as to how these activities are helping achieve the overarching goal(s) of the project.

This provides a first level of validation of the Streetlight data.

Describe any accomplishments achieved under the project goals.

An initial evaluation of the Streetlight metrics was completed.

Table 1: Task Progress			
Task Number	Start Date	End Date	% Complete
Task 1: Validating the AADT data	October 1, 2020	August 31, 2021	75%
Task 2: Validating turning counts	April 1, 2021	August 31, 2021	25%
Task 3: Reporting	June 1, 2021	September 30, 2021	25%
Overall Project:	<i>October 1, 2020</i>	<i>December 31, 2021</i>	

Table 2: Budget Progress		
Project Budget	Spend – Project to Date	% Project to Date
\$26,097	\$17,027.46	65%

Describe any opportunities for training/professional development that have been provided.

N/A

Describe any activities involving the dissemination of research results (be sure to include outputs, outcomes, and the ways in which the outcomes/outputs have had an impact during the reporting period).

Table 3: Presentations at Conferences, Workshops, Seminars, and Other Events				
Title	Event	Type	Location	Date(s)
N/A				

Table 4: Publications and Submitted Papers and Reports				
Type	Title	Citation	Date	Status
N/A				

Participants and Collaborators:

Use the table below to list all individuals who have worked on the project.

Table 5: Active Principal Investigators, faculty, administrators, and Management Team Members			
Individual Name	Email Address	Department	Role in Research
Kathryn Ballingall	Kathryn.ballingall@maine.edu	MCSPC	Co-PI
Jonathan Rubin	rubinj@maine.edu	Economics	PI
Per Garder	garder@maine.edu	Civil Engineering	Co-PI

Use the table below to list all students who have participated in the project during the reporting. (This includes all paid, unpaid, intern, independent study, or any other student that participated in this project.)

Table 6: Student Participants during the reporting period				
Student Name	Email Address	Class	Major	Role in research
Sheldon Green		Senior	Economics	Research Assistant
Peter O'Brien		Senior	Economics	Research Assistant

Use the table below to list any students who worked on this project and graduated during this reporting period.

Table 7: Student Graduates			
Student Name	Role in Research	Degree	Graduation Date
Sheldon Green	Research Assistant	Bachelor of Economics	May 1, 2021

Use the table below to list organizations have been involved as partners on this project and their contribution to the project.

Table 8: Research Project Collaborators during the reporting period						
Organization	Location	Contribution to the Project				
		Financial Support	In-Kind Support	Facilities	Collaborative Research	Personnel Exchanges
N/A						

List all other outputs, outcomes, and impacts here (i.e. patent applications, technologies, techniques, licenses issued, and/or website addresses used to disseminate research findings). Please be sure to provide detailed information about each item as with the tables above.

N/A

Have other collaborators or contacts been involved? If so, who and how? (This would include collaborations with others within the lead or partner universities; especially interdepartmental or interdisciplinary collaborations.)

Table 9: Other Collaborators			
Collaborator Name and Title	Contact Information	Organization and Department	Contribution to Research
Ed Hanscom		Maine DOT, Traffic Analysis	(i.e. Technical Champion)

Who is the Technical Champion for this project?

Name: Dale Peabody

Title: Director of Research

Organization: Maine Department of Transportation

Location (City & State): Augusta, ME

Email Address: dale.peabody@maine.gov

Changes:

Discuss any actual or anticipated problems or delays and actions or plans to resolve them...

N/A

Discuss any changes in approach and the reasons for the change...

N/A

Planned Activities:

Description of future activities over the coming months.

- Task 1: Review Comments on MADT validation, complete day of week and hour of day validation.
- Task 2: Complete turning movement count analysis.
- Task 3: Submit final report for review by August 30th, 2021.