

State Planning and Research Program Quarterly Report

PROJECT TITLE: *Calculating Plow Cycle Times from Automatic Vehicle Location (AVL) Data*

OBJECTIVES: To develop a methodology to calculate plow cycle times, considering various relevant factors; and use the methodology to create the framework for a visualization tool that agencies can format with their own electronic data.

PERIOD COVERED: October 1 to December 31, 2023

PARTICIPATING AGENCIES: Minnesota Department of Transportation and the Clear Roads Technical Advisory Committee

PROJECT MANAGER:
Hafiz Munir / Tom Peters

SP&R PROJECT NO:

PROJECT IS:

LEAD AGENCY: MnDOT

MnDOT Contract No.
1047791

Planning
 Research & Development

PRINCIPAL INVESTIGATOR:
Ming-Shiun Lee, PhD, PE
AECOM Technical Services, Inc.

Federal Project Number:
TPF-5(353)

ANNUAL BUDGET: \$125,377.84

PROJECT EXPENDITURES TO DATE: \$112,315.52

WORK COMPLETED:

- Task 1: Project Management
 - Prepared progress reports and invoices.
 - Conducted a check-in meeting with the project subcommittee to review the draft tool framework and demonstrate the sample tool.
- Task 5: Online Tool Framework
 - Submitted the tool/dashboard framework for the subcommittee's review.
 - Submitted a sample tool and provided demonstration to the subcommittee.
 - Updated the tool framework document per subcommittee comments.
- Task 6: Final Report and Webinar
 - Worked on developing a draft version of the final report.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

- Task 1: Project Management
 - Prepare progress report and invoices.
- Task 5: Online Tool Framework
 - Finalize the tool framework.
- Task 6: Final Report and Webinar
 - Submit the draft version of the final report for the subcommittee's review.
 - Finalize the final report per subcommittee comments.
 - Prepare a presentation for the closeout webinar.
 - Conduct a closeout webinar with the Clear Roads Technical Advisory Committee.

STATUS AND COMPLETION DATE:

Project schedule amended, now with an expected completion on February 29, 2024. Project is on budget.